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FURTHER INFORMATION ABOUT OUR COMPANY

1. Incorporation

Our Company was incorporated in the PRC as a joint stock limited company on December 8, 2000 by the Promoters in accordance with the provisions under the PRC Company Law. Our A Shares were listed on the SHSE on July 3, 2003.

We have established a place of business in Hong Kong at [Level 28, Three Pacific Place, 1 Queen’s Road East, Hong Kong], and was registered with the Registrar of Companies in Hong Kong as a non-Hong Kong company under Part XI of the Companies Ordinance on [●]. Mak Sze Man who resides at [●] has been appointed as the authorized representative of our Company for the acceptance of service of process and notices on behalf of our Company in Hong Kong.

As our Company was established in the PRC, it operates subject to the relevant laws and regulations of the PRC and to its constitution which comprises the Articles of Association. Certain relevant aspects of the relevant laws and regulations of the PRC, and a summary of certain relevant provisions of the Articles of Association are set out in Appendices VI and VII to this document, respectively.

2 Changes in the Registered Capital of our Company

As of the date of its establishment, the initial registered capital of our Company was RMB180,000,000 divided into 180,000,000 A Shares of par value of RMB1.00 each, all of which were credited as fully paid up and were held by the Promoters as follows:

Name of Promoters	Number of A Shares	Approximately Percentage of interest
Sany Group	173,809,300	96.56%
Hunan High Tech Investment Company Limited	3,346,400	1.86%
Xishan Yilida Machinery Company Limited	1,673,300	0.93%
Henan Xinghua Machinery Manufacturing	892,400	0.50%
Loudi Xinye Company Limited	278,600	0.15%
Total	180,000,000	100.00%

On June 18, 2003, our Company issued 60,000,000 A Shares of RMB1.00 each and all the A Shares have been listed on the SHSE on July 3, 2003. Upon obtaining the approval from the CSRC of our Company’s application for an initial public offering, our Company issued 60,000,000 A Shares to the public in the PRC on June 18, 2003 and our registered capital was increased from RMB180,000,000 to RMB240,000,000, comprising 180,000,000 non-tradable A Shares and 60,000,000 tradable A Shares as follows:

Shareholders	Nature	Number of Shares	Approximate Percentage of interest (%)
Sany Group	Non-tradable A Shares	173,809,300	72.42
Hunan High Tech Investment Company Limited	Non-tradable A Shares	3,346,400	1.39
Xishan Yilida Machinery Company Limited	Non-tradable A Shares	1,673,300	0.70
Henan Xinhua Machinery Manufacturing	Non-tradable A Shares	892,400	0.37
Loudi Xinye Company Limited	Non-tradable A Shares	278,600	0.12
Other holders of A Shares	Tradable A Shares	60,000,000	25.00
Total		240,000,000	100.00

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On June 17, 2005, our Company reformed the non-tradable A Shares and converted all non-tradable A Shares into tradable A Shares. Upon completion of the conversion, the registered capital of our Company was RMB240,000,000 comprising 159,000,000 tradable A Shares with conditional lock-up and 81,000,000 tradable A Shares as follows:

<u>Shareholders</u>	<u>Nature</u>	<u>Number of Shares</u>	<u>Approximate Percentage of interest (%)</u>
Sany Group	Tradable A Shares (with conditional lock-up)	153,531,547	63.97
Kunshan Sany Heavy Machinery	Tradable A Shares (with conditional lock-up)	2,955,987	1.23
Xishan Yilida Machinery Company Limited	Tradable A Shares (with conditional lock-up)	1,478,082	0.62
Henan Xinhua Machinery Manufacturing	Tradable A Shares (with conditional lock-up)	788,287	0.33
Loudi Xinye Company Limited	Tradable A Shares (with conditional lock-up)	246,097	0.10
Other holders of A Shares	Tradable A Shares	81,000,000	33.75
Total		240,000,000	100.00

On July 1, 2005, our registered capital was increased from RMB240,000,000 to RMB480,000,000 with 318,000,000 tradable A Shares with conditional lock-up and 162,000,000 tradable A Shares allotted and issued to certain holders of A Shares, as follows:

<u>Shareholders</u>	<u>Nature</u>	<u>Number of Shares</u>	<u>Approximate Percentage of interest (%)</u>
Sany Group	Tradable A Shares (with conditional lock-up)	307,063,094	63.97
Runshan Sany Heavy Machinery Co., Ltd.	Tradable A Shares (with conditional lock-up)	5,911,974	1.23
Xishan Yilida Machinery Company Limited	Tradable A Shares (with conditional lock-up)	2,956,164	0.62
Loudi Xinye Company Limited	Tradable A Shares (with conditional lock-up)	492,194	0.10
Henan Xinhua Machinery Manufacturing	Tradable A Shares (with conditional lock-up)	1,576,574	0.33
Other holders of A Shares	Tradable A Shares	162,000,000	33.75
Total		480,000,000	100.00

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On June 19, 2006, due to the expiration of the conditional lock-up period, our Company converted 10,936,906 tradable A Shares with conditional lock-up into tradable A Shares. Upon completion of the conversion, our registered capital was RMB480,000,000 divided into 307,063,094 tradable A Shares with conditional lock-up and 161,559,357 tradable A Shares as follows:

<u>Shareholders</u>	<u>Nature</u>	<u>Number of Shares</u>	<u>Approximate Percentage of interest (%)</u>
Sany Group	Tradable A Shares with conditional lock-up	307,063,094	64.0
Sany Group.	Tradable A Shares	11,377,549	2.3
Other holders of A Shares	Tradable A Shares	161,559,357	33.7
Total		480,000,000	100.00

On April 24, 2007, our registered capital was increased from RMB480,000,000 to RMB960,000,000 with 307,063,094 tradable A Shares with conditional lock-up and 172,936,906 tradable A Shares allotted and issued to certain holders of A Shares, as follows:

<u>Shareholders</u>	<u>Nature</u>	<u>Number of Shares</u>	<u>Approximate Percentage of interest (%)</u>
Sany Group	Tradable A Shares with conditional lock-up	614,126,188	64.0
Sany Group.	Tradable A Shares	1,563,324	0.1
Other holders of A Shares	Tradable A Shares	344,310,488	35.9
Total		960,000,000	100.00

On June 25, 2007, due to the expiration of the conditional lock-up period, our Company converted 96,000,000 tradable A Shares with conditional lock-up into tradable A Shares. Upon completion of the conversion, our registered capital was RMB960,000,000 divided into 518,126,188 tradable A Shares with conditional lock-up and 441,873,812 tradable A Shares as follows:

<u>Shareholders</u>	<u>Nature</u>	<u>Number of Shares</u>	<u>Approximate Percentage of interest (%)</u>
Sany Group	Tradable A Shares with conditional lock-up	518,126,188	54.0
Sany Group.	Tradable A Shares	97,563,324	10.1
Other holders of A Shares	Tradable A Shares	344,310,488	35.9
Total		960,000,000	100.00

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On August 23, 2007, our registered capital was increased from RMB960,000,000 to RMB992,000,000 with 32,000,000 tradable A Shares with conditional lock-up allotted and issued to certain holders of A Shares as follows:

Shareholders	Nature	Number of Shares	Approximate Percentage of interest (%)
Sany Group	Tradable A Shares with conditional lock-up	518,126,188	52.2
Sany Group	Tradable A Shares	96,000,000	9.7
Other holders of A Shares	Tradable A Shares with conditional lock-up	32,000,000	3.2
Other holders of A Shares	Tradable A Shares	345,873,812	34.9
Total		992,000,000	100.00

On June 17, 2008, due to the expiration of the conditional lock-up period, our Company converted 518,126,188 tradable A Shares with conditional lock-up into tradable A Shares. Upon completion of the conversion, our registered capital was RMB992,000,000 divided into 32,000,000 tradable A Shares with conditional lock-up and 960,000,000 tradable A Shares as follows:

Shareholders	Nature	Number of Shares	Approximate Percentage of interest (%)
Sany Group	Tradable A Shares	602,414,378	60.7
Other holders of A Shares	Tradable A Shares with conditional lock-up	32,000,000	3.3
Other holders of A Shares	Tradable A Shares	357,585,622	36.0
Total		992,000,000	100.00

On July 11, 2008, our Company increased its registered capital from 992,000,000 to RMB1,488,000,000 with 16,000,000 tradable A Shares with conditional lock-up and 480,000,000 tradable A Shares allotted and issued to certain holders of A Shares as follows:

Shareholders	Nature	Number of Shares	Approximate Percentage of interest (%)
Sany Group	Tradable A Shares	903,621,567	60.7
Other holders of A Shares	Tradable A Shares with conditional lock-up	48,000,000	3.3
Other holders of A Shares	Tradable A Shares	536,378,433	36.0
Total		1,488,000,000	100.00

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On August 18, 2008, due to the expiration of the conditional lock-up, our Company converted 48,000,000 tradable A Shares with conditional lock-up into tradable A Shares. Upon completion of the conversion, our registered capital was RMB1,488,000,000 comprising 1,488,000,000 Tradable A Shares as follows:

<u>Shareholders</u>	<u>Nature</u>	<u>Number of Shares</u>	<u>Approximate Percentage of interest (%)</u>
Sany Group	Tradable A Shares	903,621,567	60.7
Other holders of A Shares	Tradable A Shares	584,378,433	39.3
Total		1,488,000,000	100.00

On January 26, 2010, our registered capital was increased from 1,488,000,000 to RMB1,607,133,574 with 119,133,574 tradable A Shares with conditional lock-up allotted and issued to certain holders of A Shares as follows:

<u>Shareholders</u>	<u>Nature</u>	<u>Number of Shares</u>	<u>Approximate Percentage of interest (%)</u>
Sany Group	Tradable A Shares	903,611,567	56.2
Other holders of A Shares	Tradable A Shares with conditional lock-up	119,133,574	7.4
Other holders of A Shares	Tradable A Shares	584,388,433	36.4
Total		1,607,133,574	100.00

On June 25, 2010, our registered capital was increased from 1,607,133,574 to RMB2,410,700,361 with 59,566,787 tradable A Shares with conditional lock-up and 744,000,000 tradable A Shares allotted and issued to certain holders of A Shares as follows:

<u>Shareholders</u>	<u>Nature</u>	<u>Number of Shares</u>	<u>Approximate Percentage of interest (%)</u>
Sany Group	Tradable A Shares	1,355,417,350	56.2
Other holders of A Shares	Tradable A Shares with conditional lock-up	178,700,361	7.4
Other holders of A Shares	Tradable A Shares	876,582,650	36.4
Total		2,410,700,361	100.00

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On October 25, 2010, our registered capital was increased from RMB2,410,700,361 to RMB5,062,470,758 with 196,570,397 tradable A Shares with conditional lock-up and 2,455,200,000 tradable A Shares allotted and issued to certain holders of A Shares as follows:

<u>Shareholders</u>	<u>Nature</u>	<u>Number of Shares</u>	<u>Approximate Percentage of interest (%)</u>
Sany Group	Tradable A Shares	2,854,207,341	56.4
Holders of A Shares	Tradable A Shares with conditional lock-up	375,270,758	7.4
Holders of A Shares	Tradable A Shares	1,832,992,659	36.2
Total		5,062,470,758	100

On April 25, 2011 (issuance of bonus shares), our registered capital was increased from RMB5,062,470,758 to RMB7,593,706,137, with 187,635,379 tradable A Shares with conditional lock-up and 2,343,600,000 tradable A Shares allotted and issued to certain holders of A Shares (with bonus issue and dividend payment - 5 shares and RMB0.6 in cash for every 10 existing shares) as follows:

<u>Shareholders</u>	<u>Nature</u>	<u>Number of Shares</u>	<u>Approximate Percentage of interest (%)</u>
Sany Group	Tradable A Shares	4,281,311,012	56.4
Holders of A Shares	Tradable A Shares with conditional lock-up	562,906,137	7.4
Holders of A Shares	Tradable A Shares	2,749,488,988	36.2
Total		7,593,706,137	100.00

Immediately after completion of the [●], but without taking into account the exercise of the [●], our registered capital would be as follows:

	<u>Number of Shares</u>	<u>Approximate Percentage of interest</u>
Sany Group	[●]	[●]
Other holders of A Shares	[●]	[●]
Other holders of [●]	[●]	[●]
	<u>[●]</u>	<u>100.00</u>

Save as disclosed in this document, there has been no alteration in the registered capital of our Company since the date of its establishment.

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3. Resolutions of the Company’s Shareholders passed at our Company’s extraordinary general meeting on [●].

An extraordinary general meeting of our Company was held on [●] at which, among other things, the following resolutions of the Shareholders were passed:

- (a) the proposal regarding an application by our Company for the issuance of [●] and [●] of the [●] on the Hong Kong Stock Exchange, including, among others, conditional upon, (i) the [●] granting approval for the [●] of, and permission to deal in, the [●] to be issued as mentioned herein, and (ii) the [●] becoming unconditional and not being terminated in accordance with the terms of such agreements or otherwise, the following matters were approved:
 - (i) the issue by our Company of [●] and the [●] of the [●] on the Hong Kong Stock Exchange;
 - (ii) the granting of the [●]; and
 - (iii) the increase in the share capital of our Company upon completion of the [●].
- (b) the Articles of Association, the rules of procedures for shareholders’ meetings and the rules of procedures for Board meetings have been adopted, which shall only become effective on the [●] and our Board has been authorized to amend the Articles of Association in accordance with any comments from the Hong Kong Stock Exchange and relevant government authorities of the PRC; and
- (c) our Board was authorized, among other things, to do any acts and things relating to the issuance and [●] of the [●] on the Hong Kong Stock Exchange.

FURTHER INFORMATION ABOUT OUR SUBSIDIARIES

1. Our Principal Subsidiaries

Our principal subsidiaries (for the purposes of the [●]) as of the date of this [●] include all entities set out under Note [47] to the Accountant’s Report as included in Appendix I to this document.

The following sets out the changes in the share capital of our principal subsidiaries within the two years immediately preceding the date of this document:

1. Sany Automobile Manufacturing

The registered capital of Sany Automobile Manufacturing was increased to RMB328,800,000 on May 28, 2010 which was fully paid-up.

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2. *PT Sany Indonesia Machinery Co., Ltd.*

The registered capital of PT Sany Indonesia Machinery Co., Ltd. was increased to USD5,600,000 on November 30, 2010.

Save as disclosed in this document, there has been no alteration in the share capital of any of our principal subsidiaries within the two years immediately preceding the date of this [●].

3. *Kunshan Sany Investment*

The registered capital of Kunshan Sany was increased to RMB10,000,000 on December 5, 2010 which was fully paid-up.

4. *Huzhou Sany Construction Machinery Test Co., Ltd.*

The registered capital of Huzhou Sany Construction Machinery Test Co., Ltd. was increased to RMB10,000,000 on December 23, 2010 which was fully paid-up.

FURTHER INFORMATION ABOUT OUR BUSINESS

1. *Material Contracts*

We have entered into the following contracts (not being contracts entered into in the ordinary course of our business) within the two years immediately preceding the date of this [●] which are or may be material:

- (a) an equity transfer agreement entered into between our Company and Sany Group on June 10, 2010, pursuant to which our Company agreed to acquire a 100% equity interest held by Sany Group in Hunan Automobile Manufacturing for a consideration of RMB221,360,001;
- (b) an equity transfer agreement entered into between our Company and Sany Group and Yi Xiaogang on June 10, 2010, pursuant to which our Company agreed to acquire 98.24% and 1.76% of the equity interest in Sany Automobile Manufacturing held by Sany Group and Yi Xiaogang, respectively, for a total consideration of RMB2,058,800,000;
- (c) an equity transfer agreement entered into between Kunshan Sany Investment and Guo Qinong on August 27, 2010, pursuant to which Kunshan Sany Investment agreed to acquire 6% equity interest held by Guo Qinong in Ningxia Sanyi Jidian Equipment for a consideration of RMB82,975.
- (d) an equity transfer agreement entered into between Shanghai Sany Technology and Sany Heavy Machinery on September 8, 2010, pursuant to which Sany Heavy Machinery agreed to acquire a 100% equity interest held by Shanghai Sany Technology in Shanghai Sany Heavy Machinery for a consideration of RMB83,180,000.
- (e) an equity transfer agreement entered into between our Company and China Wealth on November 8, 2010, pursuant to which our Company agreed to acquire 4.65% of the equity interest in Hunan Sany Pump held by China Wealth for a consideration of RMB89,800,000.
- (f) an equity transfer agreement entered into between Kunshan Sany Investment and Tang Zhongyang on November 8, 2010, pursuant to which Kunshan Sany Investment agreed to acquire 9% equity interest held by Tang Zhongyang in Ningxia Sanyi Jidian Equipment for a consideration of RMB286,200.
- (g) an equity transfer agreement entered into between Sany Heavy Machinery Co., Ltd., and Shanghai Synnium Leasing Co., Ltd. and Mr. Yuan Yue on January 25, 2011, pursuant to which Sany Heavy Machinery Co., Ltd. agreed to acquire 99.98% and 0.02% of the equity interest in Shanghai Synnium Machinery Co., Ltd. held by Shanghai Synnium Leasing Co., Ltd. and Mr. Yuan Yue, respectively, for a total consideration of RMB11,157.22.

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- (h) an equity transfer agreement entered into between our Company and Sany Group on March 16, 2011, pursuant to which our Company agreed to acquire 21% equity interest held by Sany Group in Zhejiang Sany Manufacturing Co., Ltd. for a consideration of RMB1,287,500.
- (i) the deed of indemnity dated [●], 2011 given by the indemnifiers named therein in favor of our Company and its subsidiaries in respect of, amongst others, Hong Kong estate duty, taxation and other indemnities referred to the subsection headed [**“Estate duty and tax indemnity”**] in this Appendix;
- (j) the deed of non-competition dated [●] given by our Controlling Shareholders in favor of our Company as detailed in the section headed “Relationship with our Controlling Shareholders — Deed of Non-competition” of this [●]; and
- (k) [●].

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2. Intellectual Property Rights


Trademarks

As of the Latest Practicable Date, we have registered the following trademarks:

Trademarks	Name of Registrant	Place of Registration	Class	Registration Number	Expiry Date
 +SANY	the Company	PRC	23	949850	February 20, 2017
 +SANY	the Company	PRC	21	980058	April 13, 2017
SANY	the Company	PRC	7	1550867	April 6, 2021
	the Company	PRC	7	1550868	April 6, 2021
	the Company	PRC	7	1550869	April 6, 2021
	the Company	PRC	7	3343985	September 20, 2014
新三一	the Company	PRC	7	3838224	January 27, 2016
金三一	the Company	PRC	7	3838282	January 27, 2016
 SANY	the Company	PRC	7	5106155	April 6, 2019
	the Company	PRC	7	6131503	June 20, 2020
	the Company	PRC	7	6131504	June 13, 2020
	the Company	PRC	7	6131505	June 13, 2020
 SANY	the Company	PRC	7	6131506	June 13, 2020
	the Company	Hong Kong	7	301672353	July 25, 2020
SANY	the Company	Hong Kong	7	300701540	August 14, 2016
SANY	the Company	Hong Kong	12	300701540	August 14, 2016

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<u>Trademarks</u>	<u>Name of Registrant</u>	<u>Place of Registration</u>	<u>Class</u>	<u>Registration Number</u>	<u>Expiry Date</u>
	the Company	PRC	7	6131507	September 6, 2020
SAMAN	Sany Automobile Manufacturing	PRC	12	3729361	August 20, 2015
SANYI	Sany Automobile Manufacturing	PRC	12	3729362	February 20, 2016
SAN	Sany Automobile Manufacturing	PRC	12	3729363	August 6, 2015
SANYCA	Sany Automobile Manufacturing	PRC	12	3729376	October 20, 2015
SYQC	Sany Automobile Manufacturing	PRC	12	3729377	July 27, 2015

Patents

(i) As of the Latest Practicable Date, we were the registered proprietor of the following patents:

<u>Name of Patent</u>	<u>Patent No. (ZL)</u>	<u>Type of Patent</u>	<u>Name of Registered Proprietor</u>	<u>Place of Registration</u>	<u>Date of Application</u>	<u>Expiry Date</u>
Method for cooling vibratory wheel of road roller (壓路機振動輪冷卻方法)	00113508.2	Invention patent	our Company	PRC	June 28, 2000	June 28, 2020
A type of hydrostatic transmission grader (一種靜液壓傳動平地機)	01128595.8	Invention patent	our Company	PRC	September 14, 2001	September 14, 2021
A type of concrete pump lubricating device (一種混凝土輸送泵潤滑裝置)	02139646.9	Invention patent	our Company	PRC	September 27, 2002	September 27, 2022
Single cylinder — pulley synchro ascend and descend mechanism (單油缸-滑輪同步升降機構)	200310110518.2	Invention patent	Sany Automobile Manufacturing	PRC	November 14, 2003	November 14, 2023
Radial drilling machine capable of conducting boring processing (可進行鏜削加工的搖臂鑽床)	200310110546.4	Invention patent	our Company	PRC	November 21, 2003	November 21, 2023
Steel pipe acid cleaning approach (鋼管酸洗方法)	200310110547.9	Invention patent	our Company	PRC	November 21, 2003	November 21, 2023
Three graded concrete pump (三級配混凝土輸送泵)	200310110564.2	Invention patent	our Company	PRC	November 26, 2003	November 26, 2023
Differential pressure triggering type reversing control method for hydraulic cylinder (壓差觸發式液壓油缸換向控制方法)	200310110579.9	Invention patent	our Company	PRC	November 28, 2003	November 28, 2023

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Guiding, fall prevention safety device attached to lift scaffold (附著式升降腳手架導向、安全防墜裝置)	200310110610.9	Invention patent	our Company	PRC	December 5, 2003	December 5, 2023
Asphalt mixture transferring conveying vehicle (瀝青混合料轉運車)	200410023376.0	Invention patent	our Company	PRC	June 30, 2004	June 30, 2024
Production technology of autolubricating piston body of concrete transfer cylinder (混凝土輸送缸自潤滑活塞體生產工藝)	200410046714.2	Invention patent	our Company	PRC	August 31, 2004	August 31, 2024
Signal collecting controller of truck-mounted pump arm rack (泵車臂架傳感器信號採集控制器)	200510031171.1	Invention patent	our Company	PRC	January 19, 2005	January 19, 2025
Paver and truck butt-joint buffer unit (攤鋪機與卡車對接緩衝裝置)	200510031763.3	Invention patent	our Company	PRC	June 27, 2005	June 27, 2025
Steering actuator of pneumatic tired roller (輪胎壓路機的轉向執行裝置)	200510032000.0	Invention patent	our Company	PRC	August 11, 2005	August 11, 2025
Agitator shaft end seal failure diagnosis apparatus (攪拌機軸端密封故障診斷裝置)	200510032055.1	Invention patent	our Company	PRC	August 25, 2005	August 25, 2025
Operating area for milling-planing machine (銑刨機操作台)	200510032215.2	Invention patent	our Company	PRC	September 30, 2005	September 30, 2025
Valve oil supplement method for series connection cylinders and apparatus thereof (用於串聯油缸的閥補油方法及其裝置)	200510032309.X	Invention patent	our Company	PRC	October 28, 2005	October 28, 2025
Method of double handle screening control for walking speed of engineering machinery (工程機械行走速度的雙手柄屏蔽控制法)	200510032324.4	Invention patent	our Company	PRC	October 31, 2005	October 31, 2025
Control method of moving speed of engineering machinery (工程機械行走速度的控制方法)	200510032337.1	Invention patent	our Company	PRC	November 3, 2005	November 3, 2025

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Telescopic support leg for travel machine and truck-mounted concrete pump with the same (用於行走機械的可伸縮式支腿及具有該支腿的混凝土泵車)	200510136651.4	Invention patent	our Company	PRC	December 30, 2005	December 30, 2025
Transfer vehicle transmission shaft device (轉運車傳動軸裝置)	200610031438.1	Invention patent	our Company	PRC	March 31, 2006	March 31, 2026
Jamming testing cover plate of plug-in valve (插裝閘卡滯測試蓋板)	200610031642.3	Invention patent	our Company	PRC	May 12, 2006	May 12, 2026
Detaching-proof antenna (防拆天綫)	200610031736.0	Invention patent	our Company	PRC	May 30, 2006	May 30, 2026
Truck-mounted concrete pump (車載式混凝土輸送泵)	200610031929.6	Invention patent	our Company	PRC	July 5, 2006	July 5, 2026
Concrete conveying pipe connecting device (混凝土輸送管的連接裝置)	200610031992.X	Invention patent	our Company	PRC	July 20, 2006	July 20, 2026
Tire air inflating device of tire roller (輪胎壓路機的輪胎充氣裝置)	200610032076.8	Invention patent	our Company	PRC	August 10, 2006	August 10, 2026
Concrete piston lubricating apparatus (砼活塞潤滑裝置)	200610032300.3	Invention patent	our Company	PRC	September 25, 2006	September 25, 2026
Jacking device of placing machine (布料機頂升裝置)	200610032522.5	Invention patent	our Company	PRC	November 3, 2006	November 3, 2026
Pressure relief valve device for batching plant powder hopper (攪拌站粉倉壓力安全閘裝置)	200610032553.0	Invention patent	our Company	PRC	November 10, 2006	November 10, 2026
Device for suppressing pulsated impact of slurry flow in truck-mounted concrete pump (用於抑制混凝土泵車中混漿流體脈動衝擊的裝置)	200610032554.5	Invention patent	our Company	PRC	November 10, 2006	November 10, 2026
Paver energy-saving control method (攤鋪機節能控制方法)	200610136984.1	Invention patent	our Company	PRC	December 29, 2006	December 29, 2026
Grader electric control proportional pump control method (平地機電控比例泵的控制方法)	200610136985.6	Invention patent	our Company	PRC	December 29, 2006	December 29, 2026
A type of intelligent cantilever crane control device (一種智能臂架控制裝置)	200610156416.8	Invention patent	our Company	PRC	December 31, 2006	December 31, 2026

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Control method for walking system of paver and apparatus therefor (攤鋪機行走系統的控制方法及其裝置)	200710034361.8	Invention patent	our Company	PRC	January 31, 2007	January 31, 2027
Conveyer belt sweeper with adjusting scraper angle (可調刮刀角度的輸送機輸送帶清掃器)	200710034712.5	Invention patent	our Company	PRC	April 10, 2007	April 10, 2027
Mechanically moving pillar and truck-mounted concrete pump with such pillar (移動機械支腿及含該種支腿的混凝土泵車)	200710122828.4	Invention patent	our Company	PRC	July 5, 2007	July 5, 2027
A type of concrete pump energy-saving control method (一種混凝土輸送泵的節能控制方法)	200710035310.7	Invention patent	our Company	PRC	July 9, 2007	July 9, 2027
A type of walking type mechanical supporting device and truck-mounted concrete pump with the same (一種行走式機械支承裝置及具有這種支承裝置的混凝土泵車)	200710162427.1	Invention patent	our Company	PRC	September 21, 2007	September 21, 2027
Mortar stirring device (砂漿攪拌裝置)	200710166019.3	Invention patent	our Company	PRC	October 31, 2007	October 31, 2027
Tire roller energy-saving control system (輪胎壓路機節能控制系統)	200710192647.9	Invention patent	our Company	PRC	December 18, 2007	December 18, 2027
Aggregate conveyer of concrete batching plant (混凝土攪拌站骨料輸送裝置)	200810006115.6	Invention patent	our Company	PRC	February 3, 2008	February 3, 2028
Concrete piston and concrete conveying apparatus with the same (砼活塞及具有該活塞的混凝土輸送裝置)	200810126212.9	Invention patent	our Company	PRC	June 26, 2008	June 26, 2028
Concrete conveying pipe production process and special equipment for quenching (混凝土輸送管生產工藝及淬火專用設備)	200510031206.1	Invention patent	our Company	PRC	January 28, 2005	January 28, 2025

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Limit load adjustment method of full hydraulic bulldozer and apparatus thereof (全液壓推土機極限負荷調節方法及裝置)	200410022851.2	Invention patent	our Company	PRC	January 18, 2004	January 18, 2024
A type of bendable erector beam (一種可折彎的吊臂)	200510031383.X	Invention patent	our Company	PRC	March 29, 2005	March 29, 2025
Control method and device for steering switch operated by single or double handle of milling-planing machine (銑刨機單、雙手柄可切換轉向的控制方法和裝置)	200510136654.8	Invention patent	our Company	PRC	December 30, 2005	December 30, 2025
Container hanger with rotary hinge mechanism (帶可旋轉銜接機構的集裝箱吊具)	200610031552.4	Invention patent	our Company	PRC	April 26, 2006	April 26, 2026
Static hydraulic walking device of stacker (堆高機靜液壓行走裝置)	200610031912.0	Invention patent	our Company	PRC	July 3, 2006	July 3, 2026
Piston type energy accumulator (活塞式蓄能器)	200610031949.3	Invention patent	our Company	PRC	July 12, 2006	July 12, 2026
Full hydraulic piling machine for empty container (全液壓集裝箱空箱堆高機)	200610032006.2	Invention patent	our Company	PRC	July 24, 2006	July 24, 2026
Wearable glasses plate and wearable cutting ring (耐磨眼鏡板和耐磨切割環)	200610136821.3	Invention patent	our Company	PRC	December 8, 2006	December 8, 2026
Power controller and method for a type of hydraulic power system (一種液壓動力系統的功率控制裝置與方法)	200710152162.7	Invention patent	our Company	PRC	September 18, 2007	September 18, 2027
An engineering machinery steering control system of fluid pressure underpan (一種液壓底盤工程機械轉向控制系統)	200710195132.4	Invention patent	our Company	PRC	November 29, 2007	November 29, 2027
Full hydraulic bulldozer (全液壓推土機)	200410022803.3	Invention patent	our Company	PRC	January 2, 2004	January 2, 2024
Wall hanging type placing machine (壁掛式布料機)	200610032521.0	Invention patent	our Company	PRC	November 3, 2006	November 3, 2026

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Telescopic component and supporting leg for engineering machinery as well as truck-mounted concrete pump with the said supporting leg (用於工程機械的伸縮組件及支腿及帶該支腿的混凝土泵車)	200710035675.X	Invention patent	our Company	PRC	September 3, 2007	September 3, 2027
A kind of PWM current measurement method (一種PWM電流測量方法)	200710034549.2	Invention patent	our Company	PRC	March 16, 2007	March 16, 2027
Hydraulic disk brake with adjustable braking force (制動力可調的盤式液壓制動器)	200710035355.4	Invention patent	our Company	PRC	July 13, 2007	July 13, 2027
Boring fixture that can undertake boring processing on drill press (可在鑽床上進行鏜削加工的鏜削夾具)	200310110548.3	Invention patent	our Company	PRC	November 21, 2003	November 21, 2023
Hydraulic cylinder with dropout trigger reverse control structure (帶壓差觸發換向控制結構的液壓油缸)	200310110578.4	Invention patent	our Company	PRC	November 28, 2003	November 28, 2023
Controlling system and method for electrohydraulic proportional flow valve (電液比例流量閥調速控制系統和方法)	200710168189.5	Invention patent	our Company	PRC	November 28, 2007	November 28, 2027
A type of plasma cutting method for thin and long sheet metal (一種細長金屬板材的等離子切割方法)	200710301275.9	Invention patent	our Company	PRC	December 18, 2007	December 18, 2027
Operating device of telescopic jib to engineering machinery (工程機械伸縮臂架的操控裝置)	200710195859.2	Invention patent	our Company	PRC	November 30, 2007	November 30, 2027
Distributing valve used in concrete pump (用於混凝土泵的分配閥)	200610031179.2	Invention patent	our Company	PRC	January 23, 2006	January 23, 2026
Manufacturing method of high strength and high durability flashboard (高強度高耐磨閘板製造方法)	200510031427.9	Invention patent	our Company	PRC	April 6, 2005	April 6, 2025
Head tank of concrete pump truck (混凝土泵車的增壓油箱)	200510032399.2	Invention patent	our Company	PRC	November 18, 2005	November 18, 2025

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Manufacturing method of grader blade with high wear resistance (高耐磨平地機刀片製造方法)	200510031428.3	Invention patent	our Company	PRC	April 6, 2005	April 6, 2025
Production process for concrete conveying pipe (混凝土輸送管生產工藝)	200610031737.5	Invention patent	our Company	PRC	May 30, 2006	May 30, 2026
Quenching mould for overall quenching type grader blade (整體淬火型平地機刀片的淬火模具)	200610032401.0	Invention patent	our Company	PRC	October 13, 2006	October 13, 2026
Running gear used for towed concrete pump (用於拖式混凝土泵的行走裝置)	200610031936.6	Invention patent	our Company	PRC	July 6, 2006	July 6, 2026
A type of maximum rotation speed restricting method and system for rotatable engineering machinery (一種可回轉工程機械最大回轉速度限制方法及其系統)	200710302247.9	Invention patent	our Company	PRC	December 20, 2007	December 20, 2027
A type of rotation angle detection device for engineering vehicle turntable and its engineering vehicle (一種工程車輛轉台的回轉角度檢測裝置及其工程車輛)	200810006056.2	Invention patent	our Company	PRC	February 1, 2008	February 1, 2028
Controlling method and its device to whole course stepless speed adjusting travel drive of Milling-planing machine (銑刨機全程無極調速行走驅動的控制方法及其裝置)	200510136614.3	Invention patent	our Company	PRC	December 26, 2005	December 26, 2025
Front leg of mobile engineering machinery and mobile engineering machinery therewith (移動工程機械的前支腿以及具有該前支腿的移動工程機械)	200710090543.7	Invention patent	our Company	PRC	April 11, 2007	April 11, 2027
A type of engineering vehicle walking driving hydraulic system (一種工程車輛行走驅動液壓系統)	200710302248.3	Invention patent	our Company	PRC	December 20, 2007	December 20, 2027

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
A type of spreader and its material guiding apparatus (一種攤鋪機導料裝置及其攤鋪機)	200810099751.8	Invention patent	our Company	PRC	June 4, 2008	June 4, 2028
A type of safeguard system for crane and the crane (一種起重機安全保護系統及其起重機)	200810212121.7	Invention patent	Sany Automobile Hositing Machinery Co., Ltd.	PRC	September 5, 2008	September 5, 2028
Automatic rotary-locking device for container sling (集裝箱吊具自動旋鎖裝置)	200710194919.9	Invention patent	our Company	PRC	December 6, 2007	December 6, 2027
Telescopic arm rack original position signaling device, length correcting system and engineering machinery (伸縮臂架原位信號發生裝置、長度校正系統及工程機械)	200810111016.4	Invention patent	Sany Automobile Hositing Machinery Co., Ltd.	PRC	May 29, 2008	May 29, 2028
A type of additive metering device for mixing mortar for construction (一種拌制施工用砂漿的外加劑計量裝置)	200710142590.1	Invention patent	our Company	PRC	August 29, 2007	August 29, 2027
A type of enclosed type vibration control system for double steel-wheeled vibrated roller (一種雙鋼輪振動壓路機閉式振動控制系統)	200710097356.1	Invention patent	our Company	PRC	May 11, 2007	May 11, 2027
Screw blade, feed divider having the screw blade and spreader (螺旋葉片及具有該螺旋葉片的分料裝置及攤鋪機)	200810111017.9	Invention patent	our Company	PRC	May 29, 2008	May 29, 2028
Hydraulic oil distribution controlling device of crane hydraulic system (起重機液壓系統液壓油分配控制裝置)	200810007802.X	Invention patent	Sany Automobile Hositing Machinery Co., Ltd.	PRC	February 19, 2008	February 19, 2028
Control method and device for stable starting and stopping of turning gear (回轉機構平穩啓制動的控制方法及裝置)	200810149344.3	Invention patent	our Company	PRC	September 19, 2008	September 19, 2028

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Method and apparatus for suppressing vibration of truck-mounted concrete pump arm frame (用於抑制混凝土泵車臂架振動的方法及裝置)	200610032361.X	Invention patent	our Company	PRC	September 30, 2006	September 30, 2026
A type of hydraulic chassis engineering machinery walking control method and control system (一種液壓底盤工程機械行走控制方法以及控制系統)	200710194972.9	Invention patent	our Company	PRC	December 7, 2007	December 7, 2027
Equipment node address code distribution method and distributing system, and address configuration node (設備節點地址碼的分配方法和分配系統、及地址配置節點)	200710301735.8	Invention patent	our Company	PRC	December 25, 2007	December 25, 2027
Crane disorder rope alarm method, device and crane using the device (起重機亂繩報警方法、裝置及使用該裝置的起重機)	200810096946.7	Invention patent	Sany Automobile Hosing Machinery Co., Ltd.	PRC	May 12, 2008	May 12, 2028
A type of control method and control system of proportion valve (一種比例閥的控制方法和控制系統)	200810214005.9	Invention patent	our Company	PRC	August 22, 2008	August 22, 2028
A type of leg leveling method and automatic leveling apparatus by using said method (一種對支腿進行調平的方法及採用該方法的自動調平裝置)	200810173603.6	Invention patent	our Company	PRC	October 30, 2008	October 30, 2028
A type of reset circuit and reset method for embedded system (一種用於嵌入式系統的複位電路和複位方法)	200810000243.X	Invention patent	our Company	PRC	January 24, 2008	January 24, 2028
A type of tilt angle sensor binding method, controller and system (一種傾角傳感器綁定方法、控制器及系統)	200810135523.1	Invention patent	our Company	PRC	August 29, 2008	August 29, 2028

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
A type of program update method and program update system for engineering machinery (一種用於工程機械的程序更新方法及程序更新系統)	200810006311.3	Invention patent	our Company	PRC	January 29, 2008	January 29, 2028
A type of power drive apparatus for concrete wet sprayer and concrete wet sprayer (一種混凝土濕噴機用動力驅動裝置及混凝土濕噴機)	200810172728.7	Invention patent	our Company	PRC	November 11, 2008	November 11, 2028
A type of remote voice control system and method used for engineering machinery (一種用於工程機械的遠程語音控制系統及方法)	200810185717.2	Invention patent	our Company	PRC	December 8, 2008	December 8, 2028
A type of wall-hanging placing boom (一種壁掛式布料杆)	200910138420.5	Invention patent	our Company	PRC	May 11, 2009	May 11, 2029
A type of control device for starting LCD power supply (一種LCD電源啟動的控制裝置)	200810188260.0	Invention patent	our Company	PRC	December 22, 2008	December 22, 2028
A type of emergent stop signal generating system for mechanical equipment and engineering machinery thereof (一種用於機械設備的急停信號產生系統及其工程機械)	200810184057.6	Invention patent	our Company	PRC	December 15, 2008	December 15, 2028
Milling-planing machinery and cutter thereof (銑刨機械及其刀具)	200910135235.0	Invention patent	our Company	PRC	April 21, 2009	April 21, 2029
Port duplex, failure testing circuit and intelligent module with the circuit (端口複用及故障檢測電路及具有該電路的智能模塊)	200910127228.6	Invention patent	our Company	PRC	March 9, 2009	March 9, 2029
Roller rolling pressure regulating device (壓路機調重裝置)	01213630.1	Utility patent	our Company	PRC	March 15, 2001	March 15, 2011
Braking device for paver (平地機行車制動裝置)	01213631.X	Utility patent	our Company	PRC	March 15, 2001	March 15, 2011
Rocker frame locking device for paver (平地機擺架鎖定裝置)	01213685.9	Utility patent	our Company	PRC	March 21, 2001	March 21, 2011

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Lubricator for concrete conveying cylinder (混凝土泵輸送缸潤滑裝置)	01234902.X	Utility patent	our Company	PRC	April 18, 2001	April 18, 2011
Sealing ring for high pressure bearing concrete conveying pipe (一種耐高壓的混凝土輸送管密封圈)	01249495.X	Utility patent	our Company	PRC	August 17, 2001	August 17, 2011
Water proof device for valve controlled hydraulic cylinder piston rod (閥控式液壓油缸活塞杆的防水裝置)	01249546.8	Utility patent	our Company	PRC	August 23, 2001	August 23, 2011
A type of water proof device for hydraulic cylinder piston rod (一種液壓油缸活塞杆的防水裝置)	01249547.6	Utility patent	our Company	PRC	August 23, 2001	August 23, 2011
Water proof device for hydraulic cylinder piston rod (液壓油缸活塞杆的防水裝置)	01249548.4	Utility patent	our Company	PRC	August 23, 2001	August 23, 2011
A type of drawing tool for jointing concrete-conveying pipe (一種混凝土輸送管安裝拉碼)	01249583.2	Utility patent	our Company	PRC	August 29, 2001	August 29, 2011
Wear-proof pipe suitable for conveying concrete (適於輸送混凝土的耐磨管道)	01257223.3	Utility patent	our Company	PRC	October 25, 2001	October 25, 2011
Pumping mechanism easy to replace concrete piston (易更換缸活塞的泵送機構)	01257265.9	Utility patent	our Company	PRC	November 1, 2001	November 1, 2011
Pumping mechanism easy to replace concrete piston (易更換缸活塞的泵送機構)	01257266.7	Utility patent	our Company	PRC	November 1, 2001	November 1, 2011
Travel device for transport truck of asphalt mixture (瀝青混合料轉運車用行走裝置)	01257509.7	Utility patent	our Company	PRC	December 11, 2001	December 11, 2011
Jacking buffer device for asphalt concrete paver (瀝青混凝土攤鋪機用頂推緩衝裝置)	02223229.X	Utility patent	our Company	PRC	January 10, 2002	January 10, 2012
Hand centralized lubricating device for asphalt concrete paver (瀝青混凝土攤鋪機用自動集中潤滑裝置)	02223230.3	Utility patent	our Company	PRC	January 10, 2002	January 10, 2012

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Spiral distributing device for asphalt concrete paver (瀝青混凝土攤鋪機用螺旋分料裝置)	02223231.1	Utility patent	our Company	PRC	January 10, 2002	January 10, 2012
Left and right lifting oil cylinder synchronous device for asphalt concrete paver mangle (瀝青混凝土攤鋪機熨平板左右提升油缸同步裝置)	02223232.X	Utility patent	our Company	PRC	January 10, 2002	January 10, 2012
Automatic and hand centralized lubricating device for asphalt concrete paver (瀝青混凝土攤鋪機用自動、手動集中潤滑裝置)	02223247.8	Utility patent	our Company	PRC	January 11, 2002	January 11, 2012
Controlling device for maintaining synchronous walk of transport vehicle and paver (一種保持轉運車與攤鋪機同步行走的控制裝置)	02223294.X	Utility patent	our Company	PRC	January 18, 2002	January 18, 2012
Asphalt concrete transporting vehicle with rear-view device (具後視裝置的瀝青混合料轉運車)	02223591.4	Utility patent	our Company	PRC	March 12, 2002	March 12, 2012
Truck-mounted concrete pump driver's cab protector (混凝土泵車駕駛室保護裝置)	02223592.2	Utility patent	our Company	PRC	March 12, 2002	March 12, 2012
A type of diesel engine starting protector (一種柴油發動機啓動保護裝置)	02223968.5	Utility patent	our Company	PRC	April 30, 2002	April 30, 2012
Self-propelled truck for carrying asphalt mixtures (用於瀝青混合料轉運的自行車式車輛裝置)	02223969.3	Utility patent	our Company	PRC	April 30, 2002	April 30, 2012
A type of air filter for engineering machinery (一種工程機械用空氣過濾裝置)	02224097.7	Utility patent	our Company	PRC	May 24, 2002	May 24, 2012
Mixing device for concrete pump (用於混凝土泵的攪拌裝置)	02277347.9	Utility patent	our Company	PRC	September 27, 2002	September 27, 2012
Ferry cart simulation device for asphalt mixtures (瀝青混合料擺渡車模擬實驗裝置)	02277430.0	Utility patent	our Company	PRC	October 11, 2002	October 11, 2012

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
A type of asphalt mixture paver with temperature on-line detector (一種具溫度在綫檢測裝置的瀝青混合料攤鋪機)	02277609.5	Utility patent	our Company	PRC	November 5, 2002	November 5, 2012
A type of stepless vibrating amplitude-modulation mechanism (一種振動無級調幅機構)	02277685.0	Utility patent	our Company	PRC	November 14, 2002	November 14, 2012
Serial and parallel change over device of vehicle driving system (車用行駛系統串併聯轉換裝置)	02277721.0	Utility patent	our Company	PRC	November 21, 2002	November 21, 2012
Spiral conveyer axle feeding regulating device for asphalt mixtures transporting vehicle (瀝青混合料轉運車螺旋輸送軸進料調節裝置)	02277815.2	Utility patent	our Company	PRC	December 6, 2002	December 6, 2012
A type of automatic leveling-up machine (一種自動找平裝置)	02283205.X	Utility patent	our Company	PRC	December 30, 2002	December 30, 2012
A type of connecting-rod mechanism for truck-mounted pump (一種用於泵車的連杆機構)	02283218.1	Utility patent	our Company	PRC	December 31, 2002	December 31, 2012
A type of concrete pump S pipe mouth sealing device (一種混凝土泵S管管口密封裝置)	03248572.7	Utility patent	our Company	PRC	August 21, 2003	August 21, 2013
Centralized pressure tester for asphalt mixture transport vehicle (瀝青混合料轉運車用集中測壓裝置)	03248630.8	Utility patent	our Company	PRC	August 28, 2003	August 28, 2013
Flexible connector for unloading of asphalt mixture transport vehicle (瀝青混合料轉運車出料柔性連接裝置)	03248631.6	Utility patent	our Company	PRC	August 28, 2003	August 28, 2013
Material loading cabin and storage bin assembly with flexible connection for asphalt mixture transport vehicle (瀝青混合料轉運車帶密封柔性連接的入料箱體與料倉總成)	03248632.4	Utility patent	our Company	PRC	August 28, 2003	August 28, 2013

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Final discharging cabin conical roller bearing return mechanism of asphalt mixture transport vehicle (瀝青混合料轉運車終級出料箱圓錐滾子軸承回轉機構)	03248633.2	Utility patent	our Company	PRC	August 28, 2003	August 28, 2013
Multipath automatic centralization lubrication apparatus for asphalt mixture transport vehicle bearings (瀝青混合料轉運車軸承多路自動集中潤滑裝置)	03248634.0	Utility patent	our Company	PRC	August 28, 2003	August 28, 2013
Manual centralized lubrication apparatus for asphalt mixture transport vehicle bearings (瀝青混合料轉運車軸承手動集中潤滑裝置)	03248635.9	Utility patent	our Company	PRC	August 28, 2003	August 28, 2013
Liftable and detachable type sunshade-rainproof tarpaulin for asphalt mixture transporting vehicle (瀝青混合料轉運車可升降可拆卸式遮陽防雨頂蓬)	03248636.7	Utility patent	our Company	PRC	August 28, 2003	August 28, 2013
Integrated tire aeration device (集成輪胎充氣裝置)	03248637.5	Utility patent	our Company	PRC	August 28, 2003	August 28, 2013
Keyboard processor special for paver (攤鋪機專用鍵盤處理器)	03248638.3	Utility patent	our Company	PRC	August 28, 2003	August 28, 2013
Driving mechanism of tire roller (輪胎壓路機驅動裝置)	03248639.1	Utility patent	our Company	PRC	August 28, 2003	August 28, 2013
Asphalt mixture transport vehicle telescopic mechanical locking push roller (瀝青混合料轉運車可伸縮機械鎖定推滾)	03248640.5	Utility patent	our Company	PRC	August 28, 2003	August 28, 2013
Diameter and pitch changing screw material distributor (變徑、變節距螺旋分料器)	200420034851.X	Utility patent	our Company	PRC	January 12, 2004	January 12, 2014
Lubrication, radiation and exhausting device for driving chain wheel assembly of screw material distributor (螺旋分料器傳動鏈輪組潤滑、散熱和排氣裝置)	200420034884.4	Utility patent	our Company	PRC	January 15, 2004	January 15, 2014

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Distributing apparatus for screw material distributor (螺旋分料器分料裝置)	200420034885.9	Utility patent	our Company	PRC	January 15, 2004	January 15, 2014
Hydraulic loop for driving front wheel of paver (攤鋪機前輪驅動液壓回路)	200420034886.3	Utility patent	our Company	PRC	January 15, 2004	January 15, 2014
Quick loosening and fastening device of striker plate of paver telescopic mangle (攤鋪機伸縮熨平板之擋料板快速鬆開與鎖緊裝置)	200420034887.8	Utility patent	our Company	PRC	January 15, 2004	January 15, 2014
Braking device for full hydraulic driving grader (全液壓驅動平地機行車制動裝置)	200420034934.9	Utility patent	our Company	PRC	January 18, 2004	January 18, 2014
Car stopping brake interlocking device (停車制動聯鎖保護裝置)	200420034935.3	Utility patent	our Company	PRC	January 18, 2004	January 18, 2014
Tracing walking control device for paver (攤鋪機路沿跟踪行走控制裝置)	200420034937.2	Utility patent	our Company	PRC	January 18, 2004	January 18, 2014
Synchronous tracking control device for transport vehicle and paver (轉運車與攤鋪機同步跟踪控制裝置)	200420035009.8	Utility patent	our Company	PRC	February 10, 2004	February 10, 2014
Fully automatic stepless lifting device (全自動無級爬升裝置)	200420035836.7	Utility patent	our Company	PRC	May 12, 2004	May 12, 2014
Concrete piston for concrete pump (混凝土泵用矽活塞)	200420036004.7	Utility patent	our Company	PRC	May 28, 2004	May 28, 2014
Conveniently dismountable hydraulic valve block blind flange with axial seal (可方便拆卸的帶軸向密封的液壓閥塊法蘭蓋板)	200420036005.1	Utility patent	our Company	PRC	May 28, 2004	May 28, 2014
Water tank cover (水箱罩)	200420036216.5	Utility patent	our Company	PRC	June 18, 2004	June 18, 2014
Road surface construction matter circulation information collecting device (路面施工物流信息採集裝置)	200420068088.2	Utility patent	our Company	PRC	July 9, 2004	July 9, 2014
Operation recording device of concrete mixer (混凝土攪拌車操作記錄裝置)	200420068425.8	Utility patent	our Company	PRC	August 16, 2004	August 16, 2014

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Concrete pump with a side-mounted cooling unit (側裝式冷卻裝置的混凝土輸送泵)	200420068579.7	Utility patent	our Company	PRC	August 31, 2004	August 31, 2014
Grader running driving device (平地機行駛驅動裝置)	200420068592.2	Utility patent	our Company	PRC	September 2, 2004	September 2, 2014
Control device for level of asphalt mixture stock bin (瀝青混合料料倉料位控制裝置)	200420068785.8	Utility patent	our Company	PRC	September 24, 2004	September 24, 2014
Concrete conveyer bucket (混凝土輸送料斗)	200420069238.1	Utility patent	our Company	PRC	November 23, 2004	November 23, 2014
Test bench for paver (攤鋪機試驗台)	200520049918.1	Utility patent	our Company	PRC	April 30, 2005	April 30, 2015
Controller for truck-mounted concrete pump arm rack movement (混凝土泵車臂架運動控制器)	200520050108.8	Utility patent	our Company	PRC	January 20, 2005	January 20, 2015
Mode switching controller for arm rack control of truck-mounted pump (用於泵車臂架控制的模式切換控制器)	200520050109.2	Utility patent	our Company	PRC	January 20, 2005	January 20, 2015
Clutch transmission device for engineering machinery (工程機械用離合器傳動裝置)	200520050444.2	Utility patent	our Company	PRC	March 10, 2005	March 10, 2015
A type of emergency sealing device for concrete conveying pipe (一種混凝土輸送管應急密封裝置)	200520050482.8	Utility patent	our Company	PRC	March 15, 2005	March 15, 2015
Air conditioning device of tire road roller (輪胎壓路機的空調裝置)	200520050963.9	Utility patent	our Company	PRC	May 31, 2005	May 31, 2015
Driving device for milling-planing machine belt conveyor (銑刨機皮帶輸料機的驅動裝置)	200520051602.6	Utility patent	our Company	PRC	August 8, 2005	August 8, 2015
Material receiving apparatus of milling-planing machine (銑刨機接料裝置)	200520051603.0	Utility patent	our Company	PRC	August 8, 2005	August 8, 2015
Connection device for working unit and frame of milling-planing machine (銑刨機工作裝置與車架的連接裝置)	200520051604.5	Utility patent	our Company	PRC	August 8, 2005	August 8, 2015

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Positioning and connecting device for support leg casing of milling-planing machine (銑刨機支腿套定位連接裝置)	200520051605.X	Utility patent	our Company	PRC	August 8, 2005	August 8, 2015
Safety arrangement for access door of concrete mixer (用於混凝土攪拌機檢修門的安全裝置)	200520051753.1	Utility patent	our Company	PRC	August 25, 2005	August 25, 2015
Encloser start-stop mechanism capable of automatically compensating cylinder stroke (可自動補償油缸行程的罩殼啓閉機構)	200520052037.5	Utility patent	our Company	PRC	September 28, 2005	September 28, 2015
Concealable console mantle of milling —planing machine (可隱藏的銑刨機控制台罩蓋)	200520052064.2	Utility patent	our Company	PRC	September 30, 2005	September 30, 2015
Valve oil supplement apparatus for series connection cylinders (用於串聯油缸的閥補油裝置)	200520052283.0	Utility patent	our Company	PRC	October 31, 2005	October 31, 2015
V-shape fore-inclination supporting roller (V形前傾托輥)	200520052747.8	Utility patent	our Company	PRC	December 13, 2005	December 13, 2015
Multisection telescopic arm rack (多節伸縮臂架)	200520052781.5	Utility patent	our Company	PRC	December 15, 2005	December 15, 2015
Milling-planing machine cooling fan control device (銑刨機冷卻風扇的控制裝置)	200520052906.4	Utility patent	our Company	PRC	December 27, 2005	December 27, 2015
Telescopic support leg for travel machine and truck-mounted concrete pump with the same (用於行走機械的可伸縮式支腿及具有該支腿的混凝土泵車)	200520052976.X	Utility patent	our Company	PRC	December 31, 2005	December 31, 2015
Take-up and pay-off apparatus of cylinder safety support (油缸安全架收放裝置)	200620050303.5	Utility patent	our Company	PRC	March 15, 2006	March 15, 2016
Gear shifting mechanism for transport vehicle (轉運車換檔機構)	200620050373.0	Utility patent	our Company	PRC	March 22, 2006	March 22, 2016
Material conveying device of transport vehicle (轉運車的輸料裝置)	200620050374.5	Utility patent	our Company	PRC	March 22, 2006	March 22, 2016
Aggregate detection device of batching plant (攪拌站骨料檢測裝置)	200620051498.5	Utility patent	our Company	PRC	June 28, 2006	June 28, 2016

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Box type dust collecting device of batching plant (攪拌站箱式除塵裝置)	200620051499.X	Utility patent	our Company	PRC	June 28, 2006	June 28, 2016
Automatic suspension device for mangle of paver (攤鋪機的熨平板自動懸掛裝置)	200620051509.X	Utility patent	our Company	PRC	June 29, 2006	June 29, 2016
Automatic walking device for stationary concrete pump (用於拖式混凝土泵的自動行走裝置)	200620051574.2	Utility patent	our Company	PRC	July 6, 2006	July 6, 2016
Paver pedrail tensioning cylinder device (攤鋪機履帶張緊油缸裝置)	200620051575.7	Utility patent	our Company	PRC	July 6, 2006	July 6, 2016
Rear wheel drive assembly of tire road roller (輪胎壓路機的后輪驅動總成)	200620051904.8	Utility patent	our Company	PRC	August 10, 2006	August 10, 2016
Weighing display controller of batching plant (攪拌站稱重顯示控制裝置)	200620051932.X	Utility patent	our Company	PRC	August 15, 2006	August 15, 2016
Weighting senser information gathering device for batching plant (攪拌站的稱重傳感器信息採集裝置)	200620051933.4	Utility patent	our Company	PRC	August 15, 2006	August 15, 2016
Device for measuring angle between truck-mounted pump arms (用於泵車臂與臂之間角度測量的裝置)	200620052042.0	Utility patent	our Company	PRC	August 25, 2006	August 25, 2016
Apparatus for suppressing truck-mounted concrete pump arm frame vibrating (用於抑制混凝土泵車臂架振動的裝置)	200620052393.1	Utility patent	our Company	PRC	September 30, 2006	September 30, 2016
Placing machine fixed bracket lifting device (布料機固定支架的提升裝置)	200620052738.3	Utility patent	our Company	PRC	November 3, 2006	November 3, 2016
Cylinder set for telescopic mechanism use (伸縮機構用油缸組)	200620053044.1	Utility patent	our Company	PRC	December 7, 2006	December 7, 2016
Weighing hopper with shake-proof device (帶防晃動裝置的稱量斗)	200620147111.6	Utility patent	our Company	PRC	December 30, 2006	December 30, 2016

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Concrete mixing motor temperature detection alarmer (混凝土攪拌電機溫度的檢測報警裝置)	200620147112.0	Utility patent	our Company	PRC	December 30, 2006	December 30, 2016
Concrete mixing master machine lubricating oil temperature detection alarmer (混凝土攪拌主機潤滑油溫度的檢測報警裝置)	200620147113.5	Utility patent	our Company	PRC	December 30, 2006	December 30, 2016
Locking arrangement for truck-mounted concrete pump supporting leg (混凝土泵車支腿的鎖止裝置)	200720062357.8	Utility patent	our Company	PRC	January 30, 2007	January 30, 2017
Rear-wheel driver for tire road roller (輪胎壓路機的後輪驅動裝置)	200720062358.2	Utility patent	our Company	PRC	January 30, 2007	January 30, 2017
Supporting arrangement for roller vibratory wheel (壓路機振動輪的支承裝置)	200720062359.7	Utility patent	our Company	PRC	January 30, 2007	January 30, 2017
Recycling powder circulation system for asphaltum concrete batching plant (瀝青混凝土攪拌站回收粉循環系統)	200720062360.X	Utility patent	our Company	PRC	January 30, 2007	January 30, 2017
A type of pneumatic system of asphalt cement mortar semitrailer provided with automatic water draining apparatus (一種裝有自動排水裝置的瀝青砂漿車氣動系統)	200720062524.9	Utility patent	our Company	PRC	February 14, 2007	February 14, 2017
A type of mortar semitrailer finished product storing hopper provided with horizontal control device (一種裝有水平控制裝置的砂漿車成品儲料斗)	200720062525.3	Utility patent	our Company	PRC	February 14, 2007	February 14, 2017
Mortar semitrailer finished product storing hopper equipped with weighing device (設有稱重裝置的砂漿車成品儲料斗)	200720062526.8	Utility patent	our Company	PRC	February 14, 2007	February 14, 2017

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
A type of asphalt mortar semitrailer finished product bucket telecontrolling up and down and discharging material (一種遙控升降與放料的瀝青砂漿車成品斗)	200720062527.2	Utility patent	our Company	PRC	February 14, 2007	February 14, 2017
A type of mortar semitrailer finished product storing bucket equipped with lifting device (一種設有舉升裝置的砂漿車成品儲料斗)	200720062528.7	Utility patent	our Company	PRC	February 14, 2007	February 14, 2017
Mortar semitrailer equipped with fault monitoring and diagnosing device (設有故障監測和診斷裝置的砂漿車)	200720062610.X	Utility patent	our Company	PRC	March 1, 2007	March 1, 2017
A type of auxiliary hanging device (一種輔助吊)	200720062612.9	Utility patent	our Company	PRC	March 1, 2007	March 1, 2017
Material-feeding baseboard of paver (攤鋪機的輸料底板)	200720062784.6	Utility patent	our Company	PRC	March 26, 2007	March 26, 2017
Rectangular section scraper device on belt conveyer sweeper (皮帶輸送機清掃器上的矩形截面刮刀裝置)	200720062924.X	Utility patent	our Company	PRC	April 10, 2007	April 10, 2017
Remote tripper for cladding element gas spring of roller (壓路機覆蓋件氣彈簧的遠程解鎖裝置)	200720063122.0	Utility patent	our Company	PRC	April 30, 2007	April 30, 2017
Paver vibrating blade (攤鋪機振搗刀片)	200720063166.3	Utility patent	our Company	PRC	May 10, 2007	May 10, 2017
Truck-mounted concrete pump with hydraulic pressure driving hinge between jibs (臂架間具有液壓驅動鉸鏈的混凝土泵車)	200720063783.3	Utility patent	our Company	PRC	July 10, 2007	July 10, 2017
A type of hydraulic driving jib system of truck-mounted concrete pump (一種混凝土泵車液壓驅動臂架系統)	200720063922.2	Utility patent	our Company	PRC	July 25, 2007	July 25, 2017

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Telescopic component and supporting leg for engineering machinery as well as truck-mounted concrete pump with the said supporting leg (用於工程機械的伸縮組件及支腿及帶該支腿的混凝土泵車)	200720064355.2	Utility patent	our Company	PRC	September 4, 2007	September 4, 2017
Hydraulic control apparatus of concrete pump (混凝土輸送泵的液壓控制裝置)	200720064997.2	Utility patent	our Company	PRC	November 8, 2007	November 8, 2017
High-pressure cleaning system of concrete mixer (混凝土攪拌機高壓清洗系統)	200720065167.1	Utility patent	our Company	PRC	November 22, 2007	November 22, 2017
Labyrinth gland for end of mixing main shaft of concrete mixer (混凝土攪拌機的攪拌主軸軸端迷宮密封裝置)	200720065177.5	Utility patent	our Company	PRC	November 23, 2007	November 23, 2017
Connection device for mixing main shafts of double-horizontal shaft concrete-mixer (雙臥軸混凝土攪拌機的攪拌主軸聯接裝置)	200720065178.X	Utility patent	our Company	PRC	November 23, 2007	November 23, 2017
Levelling device mounted on mortar semitrailer (砂漿車上裝的調平裝置)	200720133295.5	Utility patent	our Company	PRC	December 29, 2007	December 29, 2017
Pipe adding and metering device of liquid for mortar semitrailer use (砂漿車用液體的管道添加與計量裝置)	200720133296.X	Utility patent	our Company	PRC	December 29, 2007	December 29, 2017
Antivibration metering device of mortar semitrailer for charging additive (砂漿車加注外加劑的抗震計量裝置)	200720133552.5	Utility patent	our Company	PRC	December 29, 2007	December 29, 2017
Blending host with apparatus for auto detecting temperature of materials (帶物料溫度自動檢測裝置的攪拌主機)	200720133566.7	Utility patent	our Company	PRC	December 29, 2007	December 29, 2017
Locking arrangement for truck-mounted concrete pump supporting leg (混凝土泵車支腿鎖止裝置)	200720146369.9	Utility patent	our Company	PRC	June 7, 2007	June 7, 2017

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Movable truck-mounted concrete pump (可移動混凝土泵車)	200720146532.1	Utility patent	our Company	PRC	May 15, 2007	May 15, 2017
A type of side sliding plate hoisting device of pavement milling-planning machine (一種路面銑刨機的側滑板提升裝置)	200720181711.9	Utility patent	our Company	PRC	October 19, 2007	October 19, 2017
Hydraulic drive fan cooling system and fan rotate speed control valve for engineering machinery (工程機械液壓驅動風扇冷卻系統及風扇轉速控制閥)	200720194442.X	Utility patent	our Company	PRC	December 5, 2007	December 5, 2017
A type of open and close control device for rotary discharge door of concrete mixer (一種混凝土攪拌機旋轉式卸料門的開閉控制裝置)	200720195888.4	Utility patent	our Company	PRC	October 31, 2007	October 31, 2017
A type of vertical axis mixer discharging gate (一種立軸攪拌機卸料門)	200720195889.9	Utility patent	our Company	PRC	October 31, 2007	October 31, 2017
A type of vertical axis mixer rotary discharging gate (一種立軸攪拌機旋轉式卸料門)	200720195890.1	Utility patent	our Company	PRC	October 31, 2007	October 31, 2017
Transmission device for planet motion stirring host (行星運動式攪拌主機的傳動裝置)	200720195892.0	Utility patent	our Company	PRC	October 31, 2007	October 31, 2017
A type of upright planetary agitator (一種立式行星攪拌機)	200720195893.5	Utility patent	our Company	PRC	October 31, 2007	October 31, 2017
A type of upright concrete mixer access door (一種立式混凝土攪拌機檢修門)	200720195894.X	Utility patent	our Company	PRC	October 31, 2007	October 31, 2017
A type of mortar mixing device (一種砂漿攪拌裝置)	200720195895.4	Utility patent	our Company	PRC	October 31, 2007	October 31, 2017
A type of scraping device for upright concrete mixer (一種立式混凝土攪拌機的刮料裝置)	200720195896.9	Utility patent	our Company	PRC	October 31, 2007	October 31, 2017
A type of mixer header (一種攪拌機頂蓋裝置)	200720195897.3	Utility patent	our Company	PRC	October 31, 2007	October 31, 2017

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Mortar semitrailer small dosage additive volume metering device (砂漿車小劑量外加劑體積計量裝置)	200720312291.3	Utility patent	our Company	PRC	December 29, 2007	December 29, 2017
Control apparatus for crane turn light (起重機轉向燈控制裝置)	200820001553.9	Utility patent	Hunan Sany Hoisting Machinery	PRC	January 23, 2008	January 23, 2018
Concrete pump (混凝土輸送泵)	200820003162.0	Utility patent	our Company	PRC	February 13, 2008	February 13, 2018
Crane rope overwind-proof apparatus (起重機鋼絲繩防過卷裝置)	200820003182.8	Utility patent	Hunan Sany Hoisting Machinery	PRC	February 20, 2008	February 20, 2018
Multiple-way valve and hydraulic device and truck-mounted concrete pump with the same (多路閥及具有該多路閥的液壓裝置、混凝土泵車)	200820003735.X	Utility patent	our Company	PRC	February 15, 2008	February 15, 2018
A type of oil gas suspension system (一種油氣懸掛系統)	200820005216.7	Utility patent	Hunan Sany Hoisting Machinery	PRC	March 18, 2008	March 18, 2018
Frequency converting controller of drier roll negative-pressure air induction for asphalt batching plant (瀝青攪拌站乾燥滾筒負壓引風變頻控制裝置)	200820005247.2	Utility patent	our Company	PRC	March 25, 2008	March 25, 2018
A type of emptying door of mixer (一種攪拌器的放料門)	200820007093.0	Utility patent	our Company	PRC	May 19, 2008	May 19, 2018
Stationary concrete pump supercharged diesel heat radiating device (拖式混凝土泵增壓柴油機散熱裝置)	200820052217.7	Utility patent	our Company	PRC	January 31, 2008	January 31, 2018
Mortar semitrailer dry powder weighing helix machine scale with pendulum reducing pull rod apparatus (帶減擺拉杆裝置的砂漿車乾粉稱量螺旋機稱)	200820052671.2	Utility patent	our Company	PRC	March 27, 2008	March 27, 2018

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Mortar semitrailer dry powder weighing helix machine scale with pendulum reducing guy cable apparatus (帶減擺拉索裝置的砂漿車乾粉稱量螺旋機稱)	200820052672.7	Utility patent	our Company	PRC	March 27, 2008	March 27, 2018
Mortar semitrailer roof with rotary movable hole-cover (帶可翻轉活動孔蓋的砂漿車車頂)	200820052673.1	Utility patent	our Company	PRC	March 27, 2008	March 27, 2018
Additive storage and feeding conveying system with liquid mixing function (具有液體拌和功能的外加劑存儲和投料輸送系統)	200820053444.1	Utility patent	our Company	PRC	June 16, 2008	June 16, 2018
Mortar semitrailer additive storing case with auxiliary heating function (砂漿車用帶輔助加熱功能的外加劑存儲箱)	200820053445.6	Utility patent	our Company	PRC	June 16, 2008	June 16, 2018
High pressure cleaner for mortar semitrailer (砂漿車用的高壓清洗裝置)	200820053446.0	Utility patent	our Company	PRC	June 16, 2008	June 16, 2018
Dismountable staircase of concrete truck-mixer (混凝土攪拌運輸車的可拆卸式扶梯)	200820054358.2	Utility patent	our Company	PRC	September 4, 2008	September 4, 2018
Multifunctional water supply joint of concrete truck-mixer water supply system (混凝土攪拌運輸車供水系統多功能給水接頭)	200820054359.7	Utility patent	our Company	PRC	September 4, 2008	September 4, 2018
Final product material movability detection system (成品料流動性檢測系統)	200820110806.6	Utility patent	our Company	PRC	April 24, 2008	April 24, 2018
Truck-mounted liquid mixing metering and feed conveying system, and mortar semitrailer using the same (車載液體配料計量與投料輸送系統及使用該系統的砂漿車)	200820117398.7	Utility patent	our Company	PRC	July 2, 2008	July 2, 2018
Spare tire bracket and automobile using the same (一種備胎架及使用該備胎架的汽車)	200820117399.1	Utility patent	Hunan Sany Hoisting Machinery	PRC	July 2, 2008	July 2, 2018

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Automatic removing material device for paver front shroud and paver using the same (攤鋪機前蓋板自動清料裝置及使用該裝置的攤鋪機)	200820126263.7	Utility patent	our Company	PRC	July 25, 2008	July 25, 2018
Hoist control apparatus and hoist control protective system thereof (起重機操縱裝置及其起重機操縱保護系統)	200820126608.9	Utility patent	Hunan Sany Hoisting Machinery	PRC	June 20, 2008	June 20, 2018
A type of side control box for paver (一種攤鋪機邊控盒)	200820128911.2	Utility patent	our Company	PRC	December 9, 2008	December 9, 2018
Telescopic arm guide means and crane telescopic arm (伸縮臂導向裝置及起重機伸縮臂)	200820133232.4	Utility patent	Hunan Sany Hoisting Machinery	PRC	September 2, 2008	September 2, 2018
A type of arm support connecting structure (一種臂架連接結構)	200820133504.0	Utility patent	our Company	PRC	August 21, 2008	August 21, 2018
Supporting leg and engineer machine with the same (支腿及具有該支腿的工程機械)	200820133505.5	Utility patent	our Company	PRC	August 21, 2008	August 21, 2018
A type of screen mash of vibration sieve (一種振動篩篩體)	200820136009.5	Utility patent	our Company	PRC	September 24, 2008	September 24, 2018
Bypass cabin and vibration screen with the same (旁通倉及具有該旁通倉的振動篩)	200820136010.8	Utility patent	our Company	PRC	September 24, 2008	September 24, 2018
A type of wet-sprayer cooling system (一種濕噴機冷卻系統)	200820136634.X	Utility patent	our Company	PRC	November 11, 2008	November 11, 2018
Hopper tilting mechanism, tilting hopper and concrete pump using hopper (料斗傾翻機構、傾翻式料斗及使用該料斗的混凝土泵)	200820136635.4	Utility patent	our Company	PRC	November 11, 2008	November 11, 2018
Shaft support and self-climbing shaft type concrete placing machine using the support (電梯井支架及使用該支架的自爬電梯井式混凝土布料機)	200820136636.9	Utility patent	our Company	PRC	November 11, 2008	November 11, 2018

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Sealing structure for airtight container and assembled powder pot (一種用於密封容器的密封結構及拼裝式粉料罐)	200820136950.7	Utility patent	our Company	PRC	September 24, 2008	September 24, 2018
Supporting leg and engineer machine with the same (支腿及具有該支腿的工程機械)	200820136951.1	Utility patent	our Company	PRC	September 24, 2008	September 24, 2018
A type of hydraulic oil auxiliary cooling device for milling-planing machine and the milling-planing machine (一種銑刨機液壓油輔助冷卻裝置及銑刨機)	200820137084.3	Utility patent	our Company	PRC	October 20, 2008	October 20, 2018
A type of milling-planing machine with material deposit removing device (一種具有積料清除裝置的銑刨機)	200820137086.2	Utility patent	our Company	PRC	October 20, 2008	October 20, 2018
A type of composite spring and concrete pumping machine employing the same (一種複合彈簧及使用該複合彈簧的混凝土泵送機械)	200820137097.0	Utility patent	our Company	PRC	October 27, 2008	October 27, 2018
Engine radiator group and engine cooling system with the same (發動機散熱器組及帶有散熱器組的發動機冷卻系統)	200820137273.0	Utility patent	Hunan Sany Hoisting Machinery	PRC	October 13, 2008	October 13, 2018
Tire inflation system and tire roller (一種輪胎充氣系統及一種輪胎壓路機)	200820137274.5	Utility patent	our Company	PRC	October 13, 2008	October 13, 2018
Transmission slippage protector for mixer belt and mixer equipped therewith (攪拌機皮帶傳動打滑保護裝置及具有該保護裝置的攪拌機)	200820140312.2	Utility patent	our Company	PRC	October 10, 2008	October 10, 2018
Dry powder charging hopper for mortar semitrailer (砂漿車用的乾粉加料斗)	200820158540.2	Utility patent	our Company	PRC	September 22, 2008	September 22, 2018
Truck-mounted dual-purpose ladder (車載式兩用梯)	200820158555.9	Utility patent	our Company	PRC	September 23, 2008	September 23, 2018

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Upper supporting roller mounting structure for feed system of milling-planing machine (銑刨機輸料系統的上托輥安裝結構)	200820158689.0	Utility patent	our Company	PRC	October 7, 2008	October 7, 2018
Welding tool for cylinder body of mixer main machine (攪拌主機缸體焊接工裝)	200820158920.6	Utility patent	our Company	PRC	October 27, 2008	October 27, 2018
Concrete truck-mixer with lifting device and stabilizing frames (帶舉升裝置和穩定架的混凝土攪拌運輸車)	200820159270.7	Utility patent	our Company	PRC	November 18, 2008	November 18, 2018
Split auxiliary frame for truck—mixer (攪拌車用分體式副車架)	200820159365.9	Utility patent	our Company	PRC	November 24, 2008	November 24, 2018
Safety device for measuring admixture of concrete batching plant (用於混凝土攪拌站外加劑計量的安全裝置)	200820159421.9	Utility patent	our Company	PRC	November 26, 2008	November 26, 2018
Wire rope locking device for hoisting machinery (卷揚設備用鋼絲繩防松裝置)	200820159422.3	Utility patent	our Company	PRC	November 26, 2008	November 26, 2018
Low bituminous concrete plant-mix heat regenerating device (低位瀝青混凝土廠拌熱再生裝置)	200820159423.8	Utility patent	our Company	PRC	November 26, 2008	November 26, 2018
A type of damping device and concrete mixer with the damping device (一種減震裝置和帶有該減震裝置的混凝土攪拌機)	200820175927.9	Utility patent	our Company	PRC	November 26, 2008	November 26, 2018
A type of vertical planet mixing device (一種立式行星攪拌裝置)	200820175929.8	Utility patent	our Company	PRC	November 26, 2008	November 26, 2018
Gate and mixer with the same (閘門裝置和具有該閘門裝置的攪拌機)	200820176412.0	Utility patent	our Company	PRC	November 24, 2008	November 24, 2018
Access door and mixer with the same (檢修門和具有該檢修門的攪拌機)	200820176414.X	Utility patent	our Company	PRC	November 24, 2008	November 24, 2018

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
A type of air inlet connecting pipe (一種進氣連接管)	200820176516.1	Utility patent	Sany Automobile Manufacturing	PRC	November 19, 2008	November 19, 2018
Front swing support of truck crane and truck crane with the same (汽車起重機的前擺動支腿及有該前擺動支腿的汽車起重機)	200820176517.6	Utility patent	Sany Automobile Manufacturing	PRC	November 19, 2008	November 19, 2018
A type of single bridge arm and damping device for stationary concrete pump (一種單橋臂及一種拖式混凝土輸送泵用減震裝置)	200820177766.7	Utility patent	our Company	PRC	December 5, 2008	December 5, 2018
A type of concrete pumping equipment drive device, truck-mounted concrete pump and truck-mounted pump (一種混凝土泵送設備驅動裝置及混凝土泵車和車載泵)	200820177767.1	Utility patent	our Company	PRC	December 5, 2008	December 5, 2018
A type of floor instrument desk and road roller thereof (一種落地式儀錶台及其壓路機)	200820178353.0	Utility patent	our Company	PRC	November 10, 2008	November 10, 2018
A type of sliding rotary console and road roller (一種滑移旋轉式操縱台及壓路機)	200820178354.5	Utility patent	our Company	PRC	November 10, 2008	November 10, 2018
A type of discharge apparatus of dry powder mortar production equipment (一種乾粉砂漿生產設備出料裝置)	200820179168.3	Utility patent	our Company	PRC	November 25, 2008	November 25, 2018
A type of discharge gate positioning device of concrete mixer (一種混凝土攪拌機的卸料門定位裝置)	200820179169.8	Utility patent	our Company	PRC	November 25, 2008	November 25, 2018
Longitudinal tube for cleaning apparatus of mixer, cleaning apparatus and concrete mixer (用於攪拌機清洗裝置的縱管、清洗裝置及混凝土攪拌機)	200820179170.0	Utility patent	our Company	PRC	November 25, 2008	November 25, 2018

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
A type of shaft sleeve, mixer transmission device and concrete mixer (一種軸套、攪拌機傳動裝置及混凝土攪拌機)	200820179171.5	Utility patent	our Company	PRC	November 25, 2008	November 25, 2018
A type of telescopic jib (一種伸縮式起重臂)	200820180520.5	Utility patent	Sany Automobile Manufacturing	PRC	December 1, 2008	December 1, 2018
A type of concrete pumping measuring system and concrete pump with the same (一種混凝土泵送計量系統及帶有該系統的混凝土泵)	200820182496.9	Utility patent	our Company	PRC	December 31, 2008	December 31, 2018
A type of low temperature start device for engine (一種發動機低溫起動裝置)	200820183474.4	Utility patent	Sany Automobile Manufacturing	PRC	December 18, 2008	December 18, 2018
Boom structure and truck-mounted concrete pump (臂架結構及混凝土泵車)	200820184510.9	Utility patent	our Company	PRC	December 26, 2008	December 26, 2018
A type of support structure and vehicle or equipment with same (一種支腿結構及具有該支腿結構的車輛或設備)	200820184524.0	Utility patent	our Company	PRC	December 30, 2008	December 30, 2018
A type of climbing mechanism for placing machine (一種布料機爬升機構)	200820184600.8	Utility patent	our Company	PRC	December 19, 2008	December 19, 2018
A type of arm section and arm rack for concrete pumping device (一種混凝土泵送設備用臂節及臂架)	200820189974.9	Utility patent	our Company	PRC	December 25, 2008	December 25, 2018
A type of concrete conveyer, concrete placing machine and truck-mounted concrete pump (一種混凝土輸送裝置、混凝土布料機和混凝土泵車)	200820189975.3	Utility patent	our Company	PRC	December 25, 2008	December 25, 2018
Slow rotating device for milling-planing drum and milling-planing machine (銑刨鼓慢轉裝置及銑刨機)	200820209717.7	Utility patent	our Company	PRC	November 5, 2008	November 5, 2018

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Discharge device of truck-mounted concrete mixer (混凝土攪拌運輸車出料裝置)	200820210829.4	Utility patent	our Company	PRC	December 8, 2008	December 8, 2018
Supporting device for concrete placing machine (用於混凝土布料機的支承裝置)	200820211137.1	Utility patent	our Company	PRC	December 29, 2008	December 29, 2018
Positioning and buffering device for concrete mechanical delivery pipe (用於混凝土機械輸送管的定位緩衝裝置)	200820211168.7	Utility patent	our Company	PRC	December 30, 2008	December 30, 2018
A type of concrete delivery pipe fixing device capable of absorbing shock and reducing noise (一種可減震降噪的混凝土輸送管固定裝置)	200820211169.1	Utility patent	our Company	PRC	December 30, 2008	December 30, 2018
Discharging device for concrete pump (用於混凝土泵的卸料裝置)	200820211170.4	Utility patent	our Company	PRC	December 30, 2008	December 30, 2018
A type of centralized lubricating device and mixer thereof (一種集中潤滑裝置及其攪拌機)	200920001505.4	Utility patent	our Company	PRC	January 5, 2009	January 5, 2019
Mileage recorder for transfer case taking-force engineering vehicle (用於帶分動箱取力工程車料的里程記錄裝置)	200920002716.X	Utility patent	our Company	PRC	January 9, 2009	January 9, 2019
Paving thickness regulator and paver with the same (攤鋪機攤鋪厚度調節裝置及具有該裝置的攤鋪機)	200920006460.X	Utility patent	our Company	PRC	March 17, 2009	March 17, 2019
A type of powdered material blending and mixing device (一種粉狀物料摻合攪拌裝置)	200920006463.3	Utility patent	our Company	PRC	March 19, 2009	March 19, 2019
A type of wall hanging placing boom (一種壁掛式布料杆)	200920150343.0	Utility patent	our Company	PRC	May 11, 2009	May 11, 2019
A type of wear resistant conveying pipe and concrete delivery machinery with the same (一種耐磨輸送管和帶有該耐磨輸送管的混凝土輸送機械)	200920154547.1	Utility patent	our Company	PRC	May 19, 2009	May 19, 2019

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Single shoot travelling concrete machinery and working mode control system there of (單發行走式混凝土機械及其工作模式控制系統)	200920159038.8	Utility patent	our Company	PRC	June 25, 2009	June 25, 2019
Balancing suspension frame and multi-axis crane containing the same (平衡懸架及包括平衡懸架的多軸起重機)	200920159039.2	Utility patent	Sany Automobile Manufacturing	PRC	June 25, 2009	June 25, 2019
A type of travelling vehicle controller and travelling vehicle (一種行駛車輛的控制裝置及行駛車輛)	200920159265.0	Utility patent	Sany Automobile Manufacturing	PRC	June 23, 2009	June 23, 2019
A type of truck crane and telescopic jib thereof (一種汽車起重機及其伸縮臂裝置)	200920160966.6	Utility patent	Sany Automobile Manufacturing	PRC	July 20, 2009	July 20, 2019
A type of engineering machinery and hydraulic power-assisted steering device thereof (一種工程機械及其液壓助力轉向器)	200920161058.9	Utility patent	Sany Automobile Manufacturing	PRC	June 29, 2009	June 29, 2019
Concrete pumping equipment and piston body thereof (混凝土泵送設備及其活塞體)	200920163975.0	Utility patent	our Company	PRC	July 10, 2009	July 10, 2019
A type of rotating mechanism for engineering machinery, truck-mounted concrete pump and placing machine (一種工程機械用回轉機構及混凝土泵車、布料機)	200820184501.X	Utility patent	our Company	PRC	December 19, 2008	December 19, 2018
Detection device for truck-mounted mixer concrete fall-down degree (攪拌車混凝土坍落度檢測裝置)	200420068089.7	Utility patent	our Company	PRC	July 9, 2004	July 9, 2014
A type of braking device (一種制動裝置)	02283219.X	Utility patent	our Company	PRC	December 31, 2002	December 31, 2012
Steering device for full hydraulic bulldozer (全液壓推土機轉向器)	01234900.3	Utility patent	our Company	PRC	April 18, 2001	April 18, 2011
Bulldozer with fully sealed aeration driver's cab (有全密封增氧駕駛室的推土機)	01234901.1	Utility patent	our Company	PRC	April 18, 2001	April 18, 2011

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Slideway lap device (導軌搭接裝置)	01235383.3	Utility patent	our Company	PRC	June 25, 2001	June 25, 2011
Able to cut off locking device of cross slideway (交叉導軌的可斷開鎖定裝置)	01235384.1	Utility patent	our Company	PRC	June 25, 2001	June 25, 2011
Bulldozer suspension device (推土機懸掛裝置)	01249696.0	Utility patent	our Company	PRC	September 14, 2001	September 14, 2011
A type of hydraulic supporting leg for heavy load vehicle (一種承重車輛用液壓支腿)	02277686.9	Utility patent	our Company	PRC	November 14, 2002	November 14, 2012
Tower crane operation monitoring apparatus (塔式起重機運行監控裝置)	02283215.7	Utility patent	our Company	PRC	December 31, 2002	December 31, 2012
A type of braking device (一種制動裝置)	02283217.3	Utility patent	our Company	PRC	December 31, 2002	December 31, 2012
A type of pipe crane (一種吊管機)	02283220.3	Utility patent	our Company	PRC	December 31, 2002	December 31, 2012
Cold starting pre-heater for engineering machinery diesel (工程機械用柴油機冷啟動預熱裝置)	03248069.5	Utility patent	our Company	PRC	June 20, 2003	June 20, 2013
Lifting type driver's cab for empty container piling machine (集裝箱空箱堆高機升降式駕駛室)	200620050738.X	Utility patent	our Company	PRC	April 26, 2006	April 26, 2016
Intelligent safety protector for empty container piling machine (集裝箱空箱堆高機智能化安全保護裝置)	200620050740.7	Utility patent	our Company	PRC	April 26, 2006	April 26, 2016
Detachable aggregate feeding device for concrete mixing plant (混凝土攪拌站的可拆分式骨料進料裝置)	200720065012.8	Utility patent	our Company	PRC	November 9, 2007	November 9, 2017
A type of crane hydraulic system (一種起重機液壓系統)	200720195447.4	Utility patent	our Company	PRC	November 1, 2007	November 1, 2017
Crane rotating speed control system (起重機回轉速度控制系統)	200720195891.6	Utility patent	our Company	PRC	October 31, 2007	October 31, 2017
Cylinder drive rotary device and construction machinery using the same (油缸驅動旋轉裝置及其應用該裝置的施工機械)	200820001883.8	Utility patent	our Company	PRC	January 29, 2008	January 29, 2018

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Powered material metering device for concrete batching plant (混凝土攪拌站粉料計量裝置)	200820052172.3	Utility patent	our Company	PRC	January 24, 2008	January 24, 2018
A type of truck-mounted concrete pump (一種混凝土泵車)	200820135498.2	Utility patent	our Company	PRC	October 22, 2008	October 22, 2018
A type of dust cover for concrete mixer (一種混凝土攪拌機用防塵罩)	200820137056.1	Utility patent	our Company	PRC	October 14, 2008	October 14, 2018
Vibrating arch breaker used for concrete mixing equipment (用於混凝土攪拌設備的振動破拱裝置)	200820158943.7	Utility patent	our Company	PRC	October 28, 2008	October 28, 2018
A type of released rope detecting device and lifting device (一種松繩檢測裝置及提升裝置)	200820209757.1	Utility patent	our Company	PRC	November 14, 2008	November 14, 2018
A type of truck-mounted concrete mixer and riding wheel thereof (一種混凝土攪拌車及其托輪)	200920161152.4	Utility patent	our Company	PRC	July 3, 2009	July 3, 2019
Full hydraulic bulldozer transmission device (全液壓推土機傳動裝置)	200320113979.0	Utility patent	our Company	PRC	October 28, 2003	October 28, 2013
Air conditioner for full hydraulic bulldozer (全液壓推土機空調裝置)	200320113980.3	Utility patent	our Company	PRC	October 28, 2003	October 28, 2013
End speed reducer for full hydraulic bulldozer (全液壓推土機終減速器)	200320113981.8	Utility patent	our Company	PRC	October 28, 2003	October 28, 2013
Power apparatus for full hydraulic bulldozer (全液壓推土機動力裝置)	200320113982.2	Utility patent	our Company	PRC	October 28, 2003	October 28, 2013
Driving error correcting apparatus for full hydraulic bulldozer (全液壓推土機行駛糾偏裝置)	200320114350.8	Utility patent	our Company	PRC	December 11, 2003	December 11, 2013
Walking control apparatus for full hydraulic bulldozer (全液壓推土機行走控制裝置)	200320114351.2	Utility patent	our Company	PRC	December 11, 2003	December 11, 2013
Reachstacker with movable counter-weighting mechanism (帶移動配重機構的集裝箱正面吊運機)	200420069320.4	Utility patent	our Company	PRC	November 30, 2004	November 30, 2014
Horizontally movable driver's cab (可平移的駕駛室)	200520050080.8	Utility patent	our Company	PRC	January 17, 2005	January 17, 2015
Sliding driver's cab (推拉式平移駕駛室)	200520050081.2	Utility patent	our Company	PRC	January 17, 2005	January 17, 2015

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Fuel oil box of reachstacker (正面吊運機的燃油箱)	200520050195.7	Utility patent	our Company	PRC	January 28, 2005	January 28, 2015
Exhauster of engine (發動機排氣裝置)	200520050198.0	Utility patent	our Company	PRC	January 28, 2005	January 28, 2015
Turn over preventing mechanism of container reachstacker (集裝箱正面吊運機防傾翻機構)	200520050443.8	Utility patent	our Company	PRC	March 10, 2005	March 10, 2015
Steel-plastic composite pipe for concrete pumping machine (用於混凝土泵送機械的鋼塑複合管)	200520050613.2	Utility patent	our Company	PRC	March 30, 2005	March 30, 2015
Full hydraulic controlling apparatus with load sensing for empty container piling machine (集裝箱空箱堆高機的帶負荷傳感的全液壓控制裝置)	200620050739.4	Utility patent	our Company	PRC	April 26, 2006	April 26, 2016
Vehicular instrument board (車用儀錶台)	200930090760.6	Design patent	our Company	PRC	May 4, 2009	May 4, 2019
A type of jib system and truck-mounted pump containing the system (一種臂架系統及包含該臂架系統的泵車)	200920064300.0	Utility patent	our Company	PRC	May 7, 2009	May 7, 2019
Stirring drum positive and negative rotation buffer device and truck-mounted concrete mixer (攪拌筒正反轉緩衝裝置及混凝土攪拌車)	200920064679.5	Utility patent	our Company	PRC	June 2, 2009	June 2, 2019
Roller swing type edge rolling/cutting device and roller (壓路機用擺動式切邊壓邊裝置及壓路機)	200920304192.X	Utility patent	our Company	PRC	June 10, 2009	June 10, 2019
Truck-mounted concrete mixer rotary main trough and truck-mounted concrete mixer (用於混凝土攪拌車的可轉動主槽及混凝土攪拌車)	200920305005.X	Utility patent	our Company	PRC	June 24, 2009	June 24, 2019
Auxiliary frame of truck-mounted concrete pump (混凝土輸送泵車副車架)	200920307291.3	Utility patent	our Company	PRC	August 3, 2009	August 3, 2019
Stirring drum of truck-mounted concrete mixer (混凝土攪拌運輸車攪拌筒)	200920309098.3	Utility patent	our Company	PRC	August 28, 2009	August 28, 2019

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
A type of stirring drum of truck-mounted concrete mixer (一種混凝土攪拌運輸車攪拌筒)	200920309117.2	Utility patent	our Company	PRC	August 28, 2009	August 28, 2019
Dual reducer drive device that can prevent damaging out-port spline (可防止輸出端花鍵副損壞的雙減速機驅動裝置)	200620050304.X	Utility patent	our Company	PRC	March 15, 2006	March 15, 2016
A type of vehicle underneath opening device to the flexible barrier of the roof of vehicle (一種車頂活動護欄的車下開啓裝置)	200720062529.1	Utility patent	our Company	PRC	February 14, 2007	February 14, 2017
Motor driving seat structure to engine fan (發動機風扇馬達傳動座結構)	200720065504.7	Utility patent	our Company	PRC	December 20, 2007	December 20, 2017
Combined Cylinder and hydraulic engineering machinery it applied (組合油缸及其所應用的液壓工程機械)	200820003627.2	Utility patent	our Company	PRC	January 25, 2008	January 25, 2018
A type of hinge pin connecting the top and tail of hydraulic tank, and the device thereof (一種液壓缸頭尾聯接銷軸及液壓缸頭尾聯接裝置)	200820000872.8	Utility patent	our Company	PRC	March 26, 2008	March 26, 2018
Automatic self aligning roller (自動調心托輪裝置)	200820052618.2	Utility patent	our Company	PRC	March 24, 2008	March 24, 2018
Positioning device and rotating operating panel therewith (定位裝置及具有該定位裝置的旋轉操縱台)	200820117397.2	Utility patent	our Company	PRC	July 2, 2008	July 2, 2018
Cylinder set for use in retraction mechanism (用於伸縮機構的油缸組)	200620053056.4	Utility patent	our Company	PRC	December 8, 2006	December 8, 2016
A type of supporting device for machinery installment (一種機械安裝支撐裝置)	200820175928.3	Utility patent	our Company	PRC	November 26, 2008	November 26, 2018
A type of connecting structure for spinning axle (一種傳動軸的連接機構)	200820135499.7	Utility patent	our Company	PRC	October 22, 2008	October 22, 2018
Laser guided auto collimation (激光制導自准直儀)	200420034850.5	Utility patent	our Company	PRC	January 12, 2004	January 12, 2014

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Single telescopic cylinder and multi-arm telescopic control device (單伸縮油缸多節臂伸縮控制裝置)	200720065267.4	Utility patent	our Company	PRC	November 30, 2007	November 30, 2017
A type of crane supporting leg leveling device (一種起重機支腿調平裝置)	200820176413.5	Utility patent	our Company	PRC	November 24, 2008	November 24, 2018
Paver front shroud (攤鋪機前蓋板)	200520051606.4	Utility patent	our Company	PRC	August 8, 2005	August 8, 2015
Wear resistant panel for grader (平地機用耐磨板)	200720062142.6	Utility patent	our Company	PRC	January 10, 2007	January 10, 2017
Double edged grader blade (雙刃平地機刀片)	200620051801.1	Utility patent	our Company	PRC	July 31, 2006	July 31, 2016
A type of turntable rotary mechanism for truck-mounted pump (一種用於泵車的轉檯回轉機構)	02277684.2	Utility patent	our Company	PRC	November 14, 2002	November 14, 2012
A type of truck-mounted concrete pump jib panoramic table (一種混凝土泵車臂架回轉台)	200720064297.3	Utility patent	our Company	PRC	August 28, 2007	August 28, 2017
Tensioning structure of working caterpillar band and working caterpillar band (行走履帶的張緊結構及行走履帶)	200820137085.8	Utility patent	our Company	PRC	October 20, 2008	October 20, 2018
A type of vertical planetary reducer and concrete mixer (一種立式行星減速機及混凝土攪拌機)	200820179172.X	Utility patent	our Company	PRC	November 25, 2008	November 25, 2018
Automatic detection, control device for discharging of transfer vehicle (轉運車出料口自動檢測、控制裝置)	200420035835.2	Utility patent	our Company	PRC	May 12, 2004	May 12, 2014
Automatic material height adjusting controller for stock bin of transfer vehicle (轉運車料倉物料高度自動調節控制裝置)	200420035834.8	Utility patent	our Company	PRC	May 12, 2004	May 12, 2014
Television monitor controller for transfer vehicle (轉運車電視監控裝置)	200420035010.0	Utility patent	our Company	PRC	February 10, 2004	February 10, 2014
A type of shaft coupling (一種聯軸節)	200420034852.4	Utility patent	our Company	PRC	January 12, 2004	January 12, 2014

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Discharge door device and asphalt cement mortar semitrailer (卸料門裝置及瀝青水泥砂漿車)	200920166337.4	Utility patent	our Company	PRC	July 31, 2009	July 31, 2019
Glasses plate for concrete pump and concrete pump (混凝土輸送泵用眼鏡板及混凝土輸送泵)	200920168003.0	Utility patent	our Company	PRC	August 4, 2009	August 4, 2019
A type of wear-resisting workpiece for concrete conveying device (一種混凝土輸送裝置用耐磨工件)	200920168066.6	Utility patent	our Company	PRC	August 14, 2009	August 14, 2019
A type of dry powder mortar processing equipment (一種乾粉砂漿加工設備)	200920162792.7	Utility patent	our Company	PRC	August 3, 2009	August 3, 2019
Abrasion resistant part of concrete pump and concrete pump with the same (一種混凝土泵的耐磨部件和具有該耐磨部件的混凝土泵)	200920168005.X	Utility patent	our Company	PRC	August 4, 2009	August 4, 2019
Walking type engineering machinery and supporting device thereof (行走式工程機械及其支承裝置)	200920170251.9	Utility patent	our Company	PRC	August 31, 2009	August 31, 2019
Truck-mounted concrete mixer and auxiliary frame used for it (混凝土攪拌車用副車架及混凝土攪拌車)	200920304936.8	Utility patent	our Company	PRC	June 24, 2009	June 24, 2019
Lubricating device for clutch booster (離合器助力器用潤滑裝置)	200920306836.9	Utility patent	our Company	PRC	July 24, 2009	June 24, 2019
Leveling meter bracket for engineering machinery and paver (用於工程機械的找平儀支架及攤鋪機)	200920307037.3	Utility patent	our Company	PRC	July 29, 2009	July 29, 2019
Concrete mixing device capable of separating and warning slurry leakage (可隔離警示漏漿的混凝土攪拌裝置)	200920310015.2	Utility patent	our Company	PRC	September 9, 2009	September 9, 2019

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Truck-mounted concrete mixer and stirring cylinder rolling track protector used for it (用於混凝土攪拌車的攪拌筒滾道保護裝置及攪拌車)	200920310451.X	Utility patent	our Company	PRC	September 15, 2009	September 15, 2019
A type of supporting leg pad and engineering machinery with the same (一種支腿墊板、具有該支腿墊板的工程機械)	200920244779.6	Utility patent	our Company	PRC	October 30, 2009	October 30, 2019
A type of vehicle and shifting controller device thereof (一種車輛及其換檔控制裝置)	200920169899.4	Utility patent	Sany Automobile Manufacturing	PRC	August 19, 2009	August 19, 2019
A type of hoisting system and mobile crane (一種起重系統及一種移動式起重機)	200920174940.7	Utility patent	Sany Automobile Manufacturing	PRC	September 28, 2009	September 28, 2019
Lock-up mechanism for slip door and slip door (用於滑移門的鎖止機構及滑移門)	200920305623.4	Utility patent	our Company	PRC	July 3, 2009	July 3, 2019
Diplane integrated guide rail type slip door and vehicle with slip door (雙平面集成導軌式滑移門及具有滑移門的車輛)	200920305902.0	Utility patent	our Company	PRC	July 9, 2009	July 9, 2019
Dust collector for concrete mixing plant and concrete mixing system with the same (混凝土攪拌站上的收塵裝置及帶收塵裝置的混凝土攪拌系統)	200920310304.2	Utility patent	our Company	PRC	September 14, 2009	September 14, 2019
Vehicle traction hook (車輛牽引掛鉤)	200920310987.1	Utility patent	our Company	PRC	September 22, 2009	September 22, 2019
Back sheltering device for truck-mounted mixer and truck-mounted mixer thereof (用於攪拌車的後遮擋裝置及其攪拌車)	200920311734.6	Utility patent	our Company	PRC	September 28, 2009	September 28, 2019
A type of material receiving apparatus and truck-mounted mixer with the same (一種接料裝置及具有該接料裝置的攪拌運輸車)	200920313142.8	Utility patent	our Company	PRC	October 23, 2009	October 23, 2019

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
A type of boom machinery and truck-mounted concrete pump (一種臂架機械及混凝土泵車)	200920268105.X	Utility patent	our Company	PRC	November 4, 2009	November 4, 2019
A type of crane height limit switch monitoring system (一種起重機高度限位開關監測系統)	200920155099.7	Utility patent	our Company	PRC	June 22, 2009	June 22, 2019
Paver and start control system thereof (攤鋪機及其起步控制系統)	200920168512.3	Utility patent	our Company	PRC	July 28, 2009	July 28, 2019
A type of conveying bent tube and concrete delivery machinery with the same (一種輸送彎管及具有該輸送彎管的混凝土輸送機械)	200920168004.5	Utility patent	our Company	PRC	August 4, 2009	August 4, 2019
Link support, placing boom with the same and concrete delivery machinery (連接支撐、具有連接支撐的布料臂及混凝土輸送機械)	200920244788.5	Utility patent	our Company	PRC	October 30, 2009	October 30, 2019
Support device and concrete mixing plant main building with the same (支撐裝置及具有該支撐裝置的混凝土攪拌站主樓結構)	200920220128.3	Utility patent	our Company	PRC	October 26, 2009	October 26, 2019
Surplus material storage device and dry mixed mortar production system containing the same (溢料存儲裝置及包括該溢料存儲裝置的幹混砂漿生產系統)	200920219835.0	Utility patent	our Company	PRC	October 21, 2009	October 21, 2019
Axle end seal structure and concrete mixer with the same (軸端密封結構及具有該軸端密封結構的混凝土攪拌機)	200920219891.4	Utility patent	our Company	PRC	October 22, 2009	October 22, 2019
Block-resistant apparatus for truck-mounted belt conveyor and truck-mounted belt conveyor (用於皮帶輸送車的防堵料裝置及皮帶輸送車)	200920315641.0	Utility patent	our Company	PRC	November 24, 2009	November 24, 2019
Calibration apparatus for heavy-duty meter (用於大型計量裝置的校稱裝置)	200920316298.1	Utility patent	our Company	PRC	December 1, 2009	December 1, 2019

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
A type of welding mechanism (一種焊接機構)	200920293567.7	Utility patent	our Company	PRC	December 7, 2009	December 7, 2019
A type of metering layer device and asphalt mixing plant containing the same (一種計量層裝置及包括該裝置的瀝青攪拌站)	200920292989.2	Utility patent	our Company	PRC	December 16, 2009	December 16, 2019
Boring machine (鏜床)	200920292399.X	Utility patent	our Company	PRC	December 16, 2009	December 16, 2019
Boring head (鏜頭)	200920292400.9	Utility patent	our Company	PRC	December 16, 2009	December 16, 2019
Paver and ironing board side baffle thereof (攤鋪機及其熨平板邊檔板)	200920266287.7	Utility patent	our Company	PRC	November 16, 2009	November 16, 2019
Truck-mounted concrete pump and concrete delivery device thereof (混凝土泵車及其混凝土輸送裝置)	200920274307.5	Utility patent	our Company	PRC	December 4, 2009	December 4, 2019
A type of mortar semitrailer liquid material dispensing tube and mortar semitrailer (一種砂漿車液體投料管路及砂漿車)	200920291428.0	Utility patent	our Company	PRC	December 18, 2009	December 18, 2019
Aggregate detection device and concrete mixing plant with the same (骨料檢測裝置及具有該骨料檢測裝置的混凝土攪拌站)	200920217680.7	Utility patent	our Company	PRC	September 30, 2009	September 30, 2019
A type of erecting arm cylinder switch controller (一種起重臂油缸切換控制裝置)	200920270403.2	Utility patent	Sany Automobile Manufacturing	PRC	November 20, 2009	November 20, 2019
A type of tired roller front wheel swing controlling device and tired roller (一種輪胎壓路機前輪搖擺控制裝置和輪胎壓路機)	200920270463.4	Utility patent	our Company	PRC	November 23, 2009	November 23, 2019
A type of angle measuring device and engineering machinery (一種角度測量裝置及工程機械)	200920352372.5	Utility patent	our Company	PRC	December 24, 2009	December 24, 2019

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
A type of powder bin arch breaking device and mixing equipment (一種粉倉破拱裝置和攪拌設備)	200920292407.0	Utility patent	our Company	PRC	December 8, 2009	December 8, 2019
A type of batching equipment and measuring system thereof (一種配料設備及其計量系統)	200920272766.X	Utility patent	our Company	PRC	December 29, 2009	December 29, 2019
Multi-path valve, hydraulic device and truck-mounted concrete pump (多路閥、液壓裝置及混凝土泵車)	200920278542.X	Utility patent	our Company	PRC	November 10, 2009	November 10, 2019
A type of pipe clip, placing boom with the same and concrete delivery machinery (一種管卡、具有管卡的布料臂及混凝土輸送機械)	200920244789.X	Utility patent	our Company	PRC	October 30, 2009	October 30, 2019
A type of mortar semitrailer finished material discharge device and mortar semitrailer (一種砂漿車成品料出料裝置及砂漿車)	200920270235.7	Utility patent	our Company	PRC	November 27, 2009	November 27, 2019
Crane transition auxiliary device and transport trailer (起重機轉場輔助裝置、運輸拖車)	200920279851.9	Utility patent	Sany Automobile Manufacturing	PRC	November 27, 2009	November 27, 2019
Truck-mounted concrete pump position detection device and truck-mounted concrete pump (混凝土泵車位置檢測裝置及混凝土泵車)	200920276157.1	Utility patent	our Company	PRC	December 9, 2009	December 9, 2019
Fault diagnostic system (故障診斷系統)	200920350122.8	Utility patent	our Company	PRC	December 25, 2009	December 25, 2019
Crane and single-cylinder bolt type telescopic boom and automatic locking device thereof (起重機及其單缸插銷式伸縮臂和插銷自鎖裝置)	200920353475.3	Utility patent	Sany Automobile Manufacturing	PRC	December 31, 2009	December 31, 2019
A type of telescopic boom cylinder and reachstacker (一種伸縮臂油缸及正面吊運機)	201020003131.2	Utility patent	our Company	PRC	January 14, 2010	January 14, 2020

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Horizontal telescoping oil cylinder supporting mechanism and horizontal telescoping supporting leg (水平伸縮油缸的支撐裝置以及水平伸縮支腿)	200920218944.0	Utility patent	Sany Automobile Manufacturing	PRC	December 10, 2009	December 10, 2019
A type of truck-mounted concrete pump and boom rack thereof (一種混凝土泵車及其臂架裝置)	200920292990.5	Utility patent	our Company	PRC	December 16, 2009	December 16, 2019
Vibration-bearing lubricating device and vibration road roller with the same (振動軸承潤滑裝置及具有該潤滑裝置的振動壓路機)	200920270933.7	Utility patent	our Company	PRC	December 2, 2009	December 2, 2019
A type of speed reducer (一種減速機)	200920317933.8	Utility patent	our Company	PRC	December 21, 2009	December 21, 2019
Detachable counterweight device for milling-planing machine and milling-planing machine (銑刨機用可拆卸式配重裝置及銑刨機)	200920317956.9	Utility patent	our Company	PRC	December 21, 2009	December 21, 2019
Truck-mounted control box and single steel wheel road roller with the same (車載操控箱以及具有該車載操控箱的單鋼輪壓路機)	200920318268.4	Utility patent	our Company	PRC	December 23, 2009	December 23, 2019
Fixation device for mortar semitrailer dry powder scale and mortar semitrailer (砂漿車乾粉秤運輸用固定裝置及砂漿車)	200920318463.7	Utility patent	our Company	PRC	December 24, 2009	December 24, 2019
Asphalt storage system for mortar semitrailer and mortar semitrailer (用於砂漿車的瀝青存儲系統及砂漿車)	200920318882.0	Utility patent	our Company	PRC	December 29, 2009	December 29, 2019
Truck-mounted mixer discharging mechanism locking device, truck-mounted mixer discharging mechanism and truck-mounted mixer (攪拌車卸料機構鎖緊裝置、攪拌車卸料機構及攪拌車)	200920318883.5	Utility patent	our Company	PRC	December 29, 2009	December 29, 2019

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Heat radiator air outlet protective hood and towed concrete pump (散热器出风口防護罩及拖式混凝土泵)	200920319194.6	Utility patent	our Company	PRC	December 30, 2009	December 30, 2019
Crawler type traveling machine support oil cylinder and crawler type traveling machine (履帶式行走機械支腿油缸及履帶式行走機械)	201020302768.1	Utility patent	our Company	PRC	February 9, 2010	February 9, 2020
Automatic dropping over-load proof hanger and trucked-mounted conveyor with the same (自動脫落防超載吊具及具有自動脫落防超載吊具的輸送車)	200920318060.2	Utility patent	our Company	PRC	December 22, 2009	December 22, 2019
Crossing cavity chamfering device (相貫孔倒角裝置)	200920318994.6	Utility patent	our Company	PRC	December 29, 2009	December 29, 2019
Aggregate feed system for dry mixed mortar production system and dry mixed mortar production system (幹混砂漿生產系統的骨料供應系統及幹混砂漿生產系統)	200920219836.5	Utility patent	our Company	PRC	October 21, 2009	October 21, 2019
Operational cabinet platform automatic leveling mechanism and crane with the same (操縱室平台自動調平機構和具有該機構的起重機)	200920293332.8	Utility patent	Sany Automobile Manufacturing	PRC	December 18, 2009	December 18, 2019
Material receiving flexible connector for mortar semitrailer dry powder weighing hopper and mortar semitrailer thereof (砂漿車乾粉稱量斗接料用柔性連接裝置及其砂漿車)	200920318409.2	Utility patent	our Company	PRC	December 24, 2009	December 24, 2019
Discharge hole regulating device and proportioning plant and mixing plant with the same (出料口調節裝置及具有該出料口調節裝置的配料站和攪拌站)	200920350011.7	Utility patent	our Company	PRC	December 25, 2009	December 25, 2019
Hydraulic oil cylinder (液壓油缸)	200920350012.1	Utility patent	our Company	PRC	December 25, 2009	December 25, 2019

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
A type of proportioning system and asphalt mixing equipment containing the same (一種配料系統及包括該配料系統的瀝青攪拌設備)	201020003502.7	Utility patent	our Company	PRC	January 18, 2010	January 18, 2020
A type of conveying bent tube and concrete delivery machinery with the same (一種輸送彎管及具有該輸送彎管的混凝土輸送機械)	201020148510.0	Utility patent	our Company	PRC	March 17, 2010	March 17, 2020
Engineering machinery and stability control system thereof (工程機械及其穩定性控制系統)	201020150707.8	Utility patent	our Company	PRC	March 30, 2010	March 30, 2020
Hybrid loader-digger (混合動力挖掘裝載機)	200920318312.1	Utility patent	our Company	PRC	December 23, 2009	December 23, 2019
Distributing valve for concrete pump and concrete pump (混凝土泵用分配閥及混凝土泵)	201020165266.9	Utility patent	our Company	PRC	April 16, 2010	April 16, 2020
Lifting boom auxiliary erection device and truck crane (起重臂輔助安裝裝置及汽車起重機)	201020167248.4	Utility patent	Sany Automobile Manufacturing	PRC	April 20, 2010	April 20, 2020
Recycling device of vehicle air conditioner condensed water (汽車空調冷凝水的再利用裝置)	200920291482.5	Utility patent	our Company	PRC	December 16, 2009	December 16, 2019
Continuous pumping mechanism (連續泵送機構)	200920318995.0	Utility patent	our Company	PRC	December 29, 2009	December 29, 2019
Anti-adhesion agent applying device for tired road roller and tired road roller (輪胎壓路機防粘劑塗抹裝置及輪胎壓路機)	201020302767.7	Utility patent	our Company	PRC	February 9, 2010	February 9, 2020
A type of supporting leg and loader-digger with the same (一種支腿及具有該支腿的挖掘裝載機)	201020302781.7	Utility patent	our Company	PRC	February 9, 2010	February 9, 2020
A type of belt weighing and conveying device and mixing plant (一種皮帶稱量輸送裝置和攪拌站)	200920220509.1	Utility patent	our Company	PRC	October 30, 2009	October 30, 2019

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
A type of crane operating cabinet deflection mechanism and crane (一種起重機操作室變位機構和起重機)	200920276078.0	Utility patent	Sany Automobile Manufacturing	PRC	December 7, 2009	December 7, 2019
High tonnage combined lifting hook and hoisting machinery with the same (大噸位組合吊鉤以及具有該裝置的起重機械)	201020106099.0	Utility patent	Sany Automobile Manufacturing	PRC	February 2, 2010	February 2, 2020
A type of three-ring rotary support mechanism (一種三環式回轉支承結構)	201029251006.0	Utility patent	Sany Automobile Manufacturing	PRC	February 8, 2010	February 8, 2020
Crane and supporting leg disc thereof (起重機及其支腳盤裝置)	201020167922.9	Utility patent	Sany Automobile Hoisting Machinery Co., Ltd.	PRC	April 23, 2010	April 23, 2020
A type of engineering machinery and pin roll component thereof (一種工程機械及其銷軸組件)	201020167231.9	Utility patent	Sany Automobile Hoisting Machinery Co., Ltd.	PRC	April 20, 2010	April 20, 2020
A type of mixer and cleaning device thereof (一種攪拌機及其清洗裝置)	200920350116.2	Utility patent	our Company	PRC	December 25, 2009	December 25, 2019
Paver (攤鋪機)	200530048120.0	Design patent	our Company	PRC	January 28, 2005	January 28, 2015
Concrete pump heat-radiating cover (混凝土泵散熱罩)	200630048395.9	Design patent	our Company	PRC	June 26, 2006	June 26, 2016
Pneumatic tired roller (輪胎壓路機)	200630048637.4	Design patent	our Company	PRC	August 8, 2006	August 8, 2016
Truck-mounted mixer (攪拌車)	200730069641.3	Design patent	our Company	PRC	January 30, 2007	January 30, 2017
Truck-mounted concrete pump (混凝土泵車)	200730069743.5	Design patent	our Company	PRC	February 13, 2007	February 13, 2017
Road roller (壓路機)	200730070604.4	Design patent	our Company	PRC	July 17, 2007	July 17, 2017
Truck-mounted concrete pump (車載式混凝土泵)	200730071038.9	Design patent	our Company	PRC	September 20, 2007	September 20, 2017

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Planet stirring host (vertical) (行星攪拌主機 (立式))	200730071252.4	Design patent	our Company	PRC	October 18, 2007	October 18, 2017
Crane (起重機)	200730071426.7	Design patent	our Company	PRC	October 31, 2007	October 31, 2017
Grader (平地機)	200730280289.8	Design patent	our Company	PRC	December 3, 2007	December 3, 2017
Truck-mounted pump (車載泵)	200830057258.0	Design patent	our Company	PRC	January 21, 2008	January 21, 2018
Mortar semitrailer (砂漿車)	200830057497.6	Design patent	our Company	PRC	March 13, 2008	March 13, 2018
Asphalt cement mortar semitrailer (瀝青水泥砂漿車)	200830178085.8	Design patent	our Company	PRC	September 23, 2008	September 23, 2018
Mortar semitrailer console (砂漿車控制台)	200830178111.7	Design patent	our Company	PRC	September 27, 2008	September 27, 2018
Truck driver’s cab (汽車駕駛室)	200830178218.1	Design patent	our Company	PRC	October 15, 2008	October 15, 2018
Concrete batching plant (modularized) (混凝土攪拌站 (模塊化))	200830178234.0	Design patent	our Company	PRC	October 17, 2008	October 17, 2018
Sandstone separator (砂石分離機)	200830342268.9	Design patent	our Company	PRC	December 8, 2008	December 8, 2018
Industrial remote controller (工業遙控器)	200830353055.6	Design patent	our Company	PRC	December 19, 2008	December 19, 2018
Paver (攤鋪機)	200830353126.2	Design patent	our Company	PRC	December 25, 2008	December 25, 2018
Concrete batching plant (混凝土攪拌站)	200830353127.7	Design patent	our Company	PRC	December 25, 2008	December 25, 2018
Truck-mounted concrete pump (混凝土泵車)	200930090684.9	Design patent	our Company	PRC	April 20, 2009	April 20, 2019
Mixer (攪拌車)	03342422.5	Design patent	our Company	PRC	July 15, 2003	July 15, 2013
Truck-mounted concrete pump (混凝土泵車)	200330106391.8	Design patent	our Company	PRC	November 18, 2003	November 18, 2013
Soil stabilization paver (穩定土攤鋪機)	200430029413.X	Design patent	our Company	PRC	January 12, 2004	January 12, 2014
Stationary concrete pump (拖式混凝土輸送泵)	200430029556.0	Design patent	our Company	PRC	February 20, 2004	February 20, 2014
Truck-mounted concrete pump (混凝土泵車)	200430029867.7	Design patent	our Company	PRC	May 21, 2004	May 21, 2014
Concrete pump (混凝土泵)	200430029890.6	Design patent	our Company	PRC	May 25, 2004	May 25, 2014

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Water tank cover (水箱罩)	200430029967.X	Design patent	our Company	PRC	June 18, 2004	June 18, 2014
Grader (平地機)	200530048119.8	Design patent	our Company	PRC	January 28, 2005	January 28, 2015
Crane engine cover (起重機發動機罩)	200730070951.7	Design patent	our Company	PRC	September 7, 2007	September 7, 2017
Container reachstacker (集裝箱正面吊運機)	200730071289.7	Design patent	our Company	PRC	October 25, 2007	October 25, 2017
Concrete pump integral tail-cover (混凝土泵整體式尾罩)	200730280060.4	Design patent	our Company	PRC	November 21, 2007	November 21, 2017
Road roller (壓路機)	200730280290.0	Design patent	our Company	PRC	December 3, 2007	December 3, 2017
Truck-mounted mixer headstock (攪拌車頭)	200730280752.9	Design patent	our Company	PRC	December 21, 2007	December 21, 2017
Driver's cab (駕駛室)	200730280761.8	Design patent	our Company	PRC	December 24, 2007	December 24, 2017
Truck-mounted concrete pump (混凝土泵車)	200830178211.X	Design patent	our Company	PRC	October 14, 2008	October 14, 2018
Bulldozer (推土機)	03342423.3	Design patent	our Company	PRC	July 15, 2003	July 15, 2013
Global positioning system terminal (全球定位系統終端)	200630048284.8	Design patent	our Company	PRC	June 6, 2006	June 6, 2016
Remote control apparatus (遙控裝置)	200630048636.X	Design patent	our Company	PRC	August 8, 2006	August 8, 2016
Industrial integrated controller (工業集成控制器)	200630049203.6	Design patent	our Company	PRC	November 20, 2006	November 20, 2016
Remote controller (遙控器)	200730070915.0	Design patent	our Company	PRC	August 30, 2007	August 30, 2017
Display (顯示器)	200730280436.1	Design patent	our Company	PRC	December 7, 2007	December 7, 2017
Control desk (操縱台)	200730280265.2	Design patent	our Company	PRC	November 30, 2007	November 30, 2017
Label (1) (標貼 (一))	200730280286.4	Design patent	our Company	PRC	December 3, 2007	December 3, 2017
Label (2) (標貼 (二))	200730280287.9	Design patent	our Company	PRC	December 3, 2007	December 3, 2017
Label (3) (標貼 (三))	200730280288.3	Design patent	our Company	PRC	December 3, 2007	December 3, 2017
Crane (起重機)	200730280177.2	Design patent	our Company	PRC	November 27, 2007	November 27, 2017

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Crane (起重機)	200930310500.5	Design patent	our Company	PRC	July 29, 2009	July 29, 2019
Controller (3) (控制器 (三))	200930311177.3	Design patent	our Company	PRC	August 4, 2009	August 4, 2019
Driver's cab (駕駛室)	200930311104.4	Design patent	our Company	PRC	August 4, 2009	August 4, 2019
Controller (1) (控制器 (一))	200930311179.2	Design patent	our Company	PRC	August 4, 2009	August 4, 2019
Controller (2) (控制器 (二))	200930311171.6	Design patent	our Company	PRC	August 4, 2009	August 4, 2019
Angle sensor (1) (角度傳感器 (一))	200930311172.0	Design patent	our Company	PRC	August 4, 2009	August 4, 2019
Angle sensor (2) (角度傳感器 (二))	200930311178.8	Design patent	our Company	PRC	August 4, 2009	August 4, 2019
Truck crane (汽車起重機)	200930312828.0	Design patent	our Company	PRC	August 25, 2009	August 25, 2019
Mixing operational table (攪拌站操作台)	200930313367.9	Design patent	our Company	PRC	August 27, 2009	August 27, 2019
Electric control cabinet (2) (電控櫃 (二))	200930311181.X	Design patent	our Company	PRC	August 4, 2009	August 4, 2019
Electric control cabinet (1) (電控櫃 (一))	200930311180.5	Design patent	our Company	PRC	August 4, 2009	August 4, 2019
Vehicle door inner decorative plate (車用門內飾板)	200930310159.3	Design patent	our Company	PRC	July 24, 2009	July 24, 2019
Driver's cab (駕駛室)	200930310502.4	Design patent	our Company	PRC	July 29, 2009	July 29, 2019
Industrial display screen (工業顯示屏)	200930311173.5	Design patent	our Company	PRC	August 4, 2009	August 4, 2019
Crane (起重機)	200930315323.X	Design patent	our Company	PRC	September 10, 2009	September 10, 2019
Road roller (壓路機)	200930324998.0	Design patent	our Company	PRC	November 16, 2009	November 16, 2019
Roof (頂篷)	200930329196.9	Design patent	our Company	PRC	December 15, 2009	December 15, 2019
Concrete delivery device placing boom main support (混凝土輸送裝置布料杆主支撐)	200930329345.1	Design patent	our Company	PRC	December 16, 2009	December 16, 2019
Electric control cabinet (1) (電控櫃 (一))	200930330816.0	Design patent	our Company	PRC	December 24, 2009	December 24, 2019
Electric control cabinet (2) (電控櫃 (二))	200930330921.4	Design patent	our Company	PRC	December 24, 2009	December 24, 2019
Truck-mounted pump (車載泵)	200930332252.4	Design patent	our Company	PRC	December 31, 2009	December 31, 2019

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Concrete mixing plant (混凝土攪拌站)	200930332230.8	Design patent	our Company	PRC	December 31, 2009	December 31, 2019
Single steel wheel road roller (單鋼輪壓路機)	201030302969.7	Design patent	our Company	PRC	February 3, 2010	February 3, 2020
Wheel cover (輪罩)	200930329173.8	Design patent	our Company	PRC	December 15, 2009	December 15, 2019
Driver's cab (駕駛室)	200930331638.3	Design patent	our Company	PRC	December 28, 2009	December 28, 2019
Driver's cab (駕駛室)	201030110286.1	Design patent	our Company	PRC	February 24, 2010	February 24, 2020
Double steel wheel road roller (雙鋼輪壓路機)	201030110306.5	Design patent	our Company	PRC	February 24, 2010	February 24, 2020
Control box (控制盒)	201030137179.8	Design patent	our Company	PRC	April 12, 2010	April 12, 2020
Operating box (操作盒)	201030137180.0	Design patent	our Company	PRC	April 12, 2010	April 12, 2020
Operating box (操作盒)	201030137178.3	Design patent	our Company	PRC	April 12, 2010	April 12, 2020
Remote control box (遠程控制盒)	201030109095.3	Design patent	our Company	PRC	February 22, 2010	February 22, 2020
Crane operational cabinet (起重機操縱室)	201030113297.5	Design patent	our Company	PRC	March 3, 2010	March 3, 2020
Truck-mounted mixer with middle support (帶中間支承的攪拌車)	201030153753.9	Design patent	our Company	PRC	April 30, 2010	April 30, 2020
Road roller operating table (壓路機操作台)	201030156201.3	Design patent	our Company	PRC	May 5, 2010	May 5, 2020
Road roller air conditioner evaporator (壓路機空調蒸發器)	201030156159.5	Design patent	our Company	PRC	May 5, 2010	May 5, 2020
Crawler crane torque controlling method and apparatus under super lifting working condition (履帶起重機超起工况下力矩控 制的方法與裝置)	200610116107.8	Invention patent	Shanghai Sany Technology	PRC	September 15, 2006	September 15, 2026
Double-caterpillar running mechanism (雙履帶行走機構)	200710043516.4	Invention patent	Shanghai Sany Technology	PRC	July 6, 2007	July 6, 2027
Mounting and fixing device for crane auxiliary arm (起重機副臂安裝及固定裝置)	200420019540.6	Utility patent	Shanghai Sany Technology	PRC	January 18, 2004	January 18, 2014

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Disassembling type flexible connection lengthened beam of crawler crane chassis (履帶起重機底座拆卸式柔性聯接加長梁)	200420107702.1	Utility patent	Shanghai Sany Technology	PRC	October 22, 2004	October 22, 2014
Hood passageway of crawler crane (履帶起重機機罩過道)	200420107701.7	Utility patent	Shanghai Sany Technology	PRC	October 22, 2004	October 22, 2014
Crane A-shaped rack directional falling device (起重機A型架定向下落裝置)	200620047484.6	Utility patent	Shanghai Sany Technology	PRC	November 3, 2006	November 3, 2016
Wire rope head fixing device (鋼絲繩頭部固定裝置)	200620047483.1	Utility patent	Shanghai Sany Technology	PRC	November 3, 2006	November 3, 2016
A type of crane chassis stationary supporting leg arrangement (一種起重機底座固定支腿結構)	200620047482.7	Utility patent	Shanghai Sany Technology	PRC	November 3, 2006	November 3, 2016
A type of crane cab pivot arm structure (一種起重機駕駛室旋轉臂結構)	200620047486.5	Utility patent	Shanghai Sany Technology	PRC	November 3, 2006	November 3, 2016
Crane counterweight self-installation adjustable sling (起重機配重自安裝可調吊索)	200620047485.0	Utility patent	Shanghai Sany Technology	PRC	November 3, 2006	November 3, 2016
Super started amplitude pulley system (超起變幅滑輪系統)	200620042707.X	Utility patent	Shanghai Sany Technology	PRC	June 12, 2006	June 12, 2016
Enclosed up-down hydraulic system (閉式升降液壓系統)	200620042704.6	Utility patent	Shanghai Sany Technology	PRC	June 12, 2006	June 12, 2016
Replacing device of stretching spring (拉伸彈簧替代裝置)	200620042698.4	Utility patent	Shanghai Sany Technology	PRC	June 12, 2006	June 12, 2016
Connection mechanism for crawler crane (履帶起重機上的連接機構)	200620042695.0	Utility patent	Shanghai Sany Technology	PRC	June 12, 2006	June 12, 2016
Oil cylinder with pin (拔銷油缸)	200620042694.6	Utility patent	Shanghai Sany Technology	PRC	June 12, 2006	June 12, 2016
Compression spring replacing device (壓縮彈簧替代裝置)	200620042692.7	Utility patent	Shanghai Sany Technology	PRC	June 12, 2006	June 12, 2016
Boom pin placing member (臂架銷軸置放件)	200620043079.7	Utility patent	Shanghai Sany Technology	PRC	June 23, 2006	June 23, 2016
Three-sectional drawbar telescoping device (三節拉杆伸縮裝置)	200620043080.X	Utility patent	Shanghai Sany Technology	PRC	June 23, 2006	June 23, 2016

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Crawler crane master-auxiliary hoister synchronous control device (履帶起重機主副卷揚同步控制裝置)	200620044944.X	Utility patent	Shanghai Sany Technology	PRC	August 18, 2006	August 18, 2016
Crawler crane arm holder safety control device (履帶起重機臂架安全控制裝置)	200620044941.6	Utility patent	Shanghai Sany Technology	PRC	August 18, 2006	August 18, 2016
Electric control operation handle function switching and controlling device for crawler crane (履帶起重機電控操縱手柄功能切換控制裝置)	200620044943.5	Utility patent	Shanghai Sany Technology	PRC	August 18, 2006	August 18, 2016
Engine negative torsional moment controlling device in enclosed hydraulic circuit crane (閉式液壓回路起重機中發動機負扭矩控制裝置)	200620044940.1	Utility patent	Shanghai Sany Technology	PRC	August 18, 2006	August 18, 2016
Crawler crane torque controlling apparatus under super lifting working condition (履帶起重機超起工况下的力矩控制裝置)	200620045839.8	Utility patent	Shanghai Sany Technology	PRC	September 15, 2006	September 15, 2016
Crawler crane (履帶起重機)	200720069549.1	Utility patent	Shanghai Sany Technology	PRC	April 29, 2007	April 29, 2017
Crawler driving wheel (履帶驅動輪)	200720073321.X	Utility patent	Shanghai Sany Technology	PRC	August 6, 2007	August 6, 2017
A-shaped rack for crawler crane (履帶起重機用的A型架)	200820155930.4	Utility patent	Kunshan Sany Machinery	PRC	November 25, 2008	November 25, 2018
Movable counterweight apparatus of crawler crane (履帶起重機移動配重裝置)	200820155927.2	Utility patent	Kunshan Sany Machinery	PRC	November 25, 2008	November 25, 2018
Positioning structure for assembling crane beam and base holder (一種起重機橫樑與底座裝配的定位結構)	200820154874.2	Utility patent	Kunshan Sany Machinery	PRC	November 4, 2008	November 4, 2018
Crane base support device (起重機底座支撐裝置)	200820157072.7	Utility patent	Kunshan Sany Machinery	PRC	December 12, 2008	December 12, 2018
Back tipping prevention device for main arm of crane (起重機主臂防後傾裝置)	200920067315.2	Utility patent	Kunshan Sany Machinery	PRC	January 22, 2009	January 22, 2019

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Foldable connecting structure for crane walking table and main platform (起重機走台與主平台的折疊式聯接結構)	200820157066.1	Utility patent	Kunshan Sany Machinery	PRC	December 12, 2008	December 12, 2018
Connecting structure of crane driver's cab and main platform (起重機司機室與主平台的連接結構)	200820157069.5	Utility patent	Kunshan Sany Machinery	PRC	December 12, 2008	December 12, 2018
Assembly and disassembly structure for crane main hoist and main platform (起重機主卷揚與主平台的裝配拆卸結構)	200820157074.6	Utility patent	Kunshan Sany Machinery	PRC	December 12, 2008	December 12, 2018
Device for plugging and unplugging connecting pin between crane beam and base holder (用於插拔起重機橫梁與底座間連接銷軸的裝置)	200820157067.6	Utility patent	Shanghai Sany Technology	PRC	December 12, 2008	December 12, 2018
A type hydraulic system for separately controlling inter-cooling and water-cooling in crawler crane engine (一種履帶起重機發動機中冷與水冷分開控制液壓系統)	200820157449.9	Utility patent	Shanghai Sany Technology	PRC	December 19, 2008	December 19, 2018
A type of high-low pressure switching hydraulic system for preventing back tilting of crawler crane jib (一種履帶起重機臂架後傾高低壓切換液壓系統)	200820157448.4	Utility patent	Shanghai Sany Technology	PRC	December 19, 2008	December 19, 2018
A type of oil storage type retroversion prevention oil cylinder for upper auxiliary arm fixing mast on crawler crane (一種用於履帶起重機上副臂固定桅杆蓄油式防後傾油缸)	200920068555.4	Utility patent	Kunshan Sany Machinery	PRC	March 6, 2009	March 6, 2019
Mounting structure of hydraulic pipeline of running drive device of crawler crane (履帶式起重機行走驅動裝置液壓管路的安裝結構)	200920068548.4	Utility patent	Kunshan Sany Machinery	PRC	March 6, 2009	March 6, 2019

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Damping device of heavy truck cab (重型載重汽車駕駛室減振裝置)	200920068549.9	Utility patent	Kunshan Sany Machinery	PRC	March 6, 2009	March 6, 2019
A type of cylinder mounting structure and support base (一種油缸安裝結構及油缸支座)	200920070527.6	Utility patent	Kunshan Sany Machinery	PRC	April 16, 2009	April 16, 2019
Centralized counterweighting fixed structure for crawler crane (履帶起重機中央配重的固定結構)	200920070528.0	Utility patent	Kunshan Sany Machinery	PRC	April 16, 2009	April 16, 2019
A type of lifting frame capable of adjusting crawler crane super lifting radius (一種可調節履帶起重機超起半徑大小的吊架)	200920070526.1	Utility patent	Kunshan Sany Machinery	PRC	April 16, 2009	April 16, 2019
Track plate of crawler crane (履帶起重機的履帶板)	200820156665.1	Utility patent	Kunshan Sany Machinery	PRC	December 5, 2008	December 5, 2018
A type of high and low pressure switch rear tipping proof hydraulic system for crawler crane (一種帶高低壓切換的履帶起重機防後傾液壓系統)	200920210578.4	Utility patent	Kunshan Sany Machinery	PRC	October 10, 2009	October 10, 2019
A type of crawler walking drive frame device (一種履帶行走驅動架裝置)	200920214636.0	Utility patent	Kunshan Sany Machinery	PRC	December 1, 2009	December 1, 2019
Crane engine throttle control device (起重機發動機油門控制裝置)	200920213034.3	Utility patent	Kunshan Sany Machinery	PRC	December 14, 2009	December 14, 2019
A type of new vertical ladder (一種新型直梯)	200920213206.7	Utility patent	Kunshan Sany Machinery	PRC	December 16, 2009	December 16, 2019
Oil cylinder with pin base mechanism (拔銷油缸座機構)	200920213205.2	Utility patent	Kunshan Sany Machinery	PRC	December 16, 2009	December 16, 2019
Crane audio communication system of alarming and calling (具有報警喊話對講功能的起重機聲訊系統)	200920286962.2	Utility patent	Kunshan Sany Machinery	PRC	December 30, 2009	December 30, 2019
A type of reversible robe stopping roll (一種可翻轉式擋繩輓)	200920213257.X	Utility patent	Kunshan Sany Machinery	PRC	December 17, 2009	December 17, 2019
Crawler crane platform quick connecting device (履帶起重機平台快速連接裝置)	200920213258.4	Utility patent	Kunshan Sany Machinery	PRC	December 17, 2009	December 17, 2019

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Crane pulling oil cylinder connecting device (起重機扳起油缸的連接裝置)	200920213259.9	Utility patent	Kunshan Sany Machinery	PRC	December 17, 2009	December 17, 2019
Crane weight block (起重機配重塊)	200920213256.5	Utility patent	Kunshan Sany Machinery	PRC	December 17, 2009	December 17, 2019
Extension arm movable robe blocking rack for crane (用於起重機的加長臂活動擋繩架)	201020150605.6	Utility patent	Kunshan Sany Machinery	PRC	April 6, 2010	April 6, 2020
Crawler crane operation assembly (履帶起重機操縱總成)	200930092956.9	Design patent	Kunshan Sany Machinery	PRC	January 13, 2009	January 13, 2019
Crawler crane cab housing (履帶起重機駕駛室外殼)	200430083356.3	Design patent	Shanghai Sany Technology	PRC	October 22, 2004	October 22, 2014
Operation cab casing (操作駕駛室殼體)	200530038555.7	Design patent	Shanghai Sany Technology	PRC	June 17, 2005	June 17, 2015
Operation room interior (操作室內飾)	200630042238.7	Design patent	Shanghai Sany Technology	PRC	October 20, 2006	October 20, 2016
Caterpillar tread (1) (履帶板 (一))	200830186593.0	Design patent	Kunshan Sany Machinery	PRC	November 21, 2008	November 21, 2018
Caterpillar tread (2) (履帶板 (二))	200830186592.6	Design patent	Shanghai Sany Technology	PRC	November 21, 2008	November 21, 2018
Caterpillar tread (3) (履帶板 (三))	200830186594.5	Design patent	Shanghai Sany Technology	PRC	November 21, 2008	November 21, 2018
Container with motivity for crawler crane (履帶起重機的動力集裝箱)	200930100567.6	Design patent	Kunshan Sany Machinery	PRC	August 13, 2009	August 13, 2019
Driver's cab (駕駛室)	200930228907.3	Design patent	Kunshan Sany Machinery	PRC	October 23, 2009	October 23, 2019
Cable fixing hook (電纜固定吊鉤)	201030101335.5	Design patent	Kunshan Sany Machinery	PRC	January 26, 2010	January 26, 2020
Circular tubed cable fixing hook (圓管電纜固定吊鉤)	201030101406.1	Design patent	Kunshan Sany Machinery	PRC	January 26, 2010	January 26, 2020
A type of large-size case machining process (一種大尺寸機殼的加工方法)	01128506.0	Invention patent	Sany Heavy Machinery	PRC	July 25, 2001	July 25, 2021
Engineering machinery driver's cab (工程機械的駕駛室)	200610031743.0	Invention patent	Sany Heavy Machinery	PRC	May 31, 2006	May 31, 2026
A type of automatic idling control method for excavator engine (一種挖掘機發動機自動怠速控制方法)	200710020360.8	Invention patent	Sany Heavy Machinery	PRC	February 12, 2007	February 13, 2027

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
A type of engine speed control method for excavator engine (一種挖掘機發動機轉速控制方法)	200710020110.4	Invention patent	Sany Heavy Machinery	PRC	February 13, 2007	February 12, 2027
Hydraulic excavator operating device fatigue testing method (液壓挖掘機工作裝置疲勞試驗方法)	200710020356.1	Invention patent	Sany Heavy Machinery	PRC	February 12, 2007	February 12, 2027
Hydraulic excavator disintegrating hammer parameter setting method (液壓挖掘機破碎錘參數設置方法)	200710020358.0	Invention patent	Sany Heavy Machinery	PRC	February 12, 2007	February 12, 2027
A type of automatic high speed valve (一種自動高速閥)	01249317.1	Utility patent	Kunshan Sany Heavy Machinery Co., Ltd.	PRC	July 19, 2001	July 19, 2011
A type of integrated Cylinder (一種整體油缸)	01249344.9	Utility patent	Kunshan Sany Heavy Machinery Co., Ltd.	PRC	July 25, 2001	July 25, 2011
A type of oil-water separator (一種油水分離器)	02277681.8	Utility patent	Kunshan Sany Heavy Machinery Co., Ltd.	PRC	November 14, 2002	November 14, 2012
Air filter for excavator (挖掘機用空氣濾清器)	02277683.4	Utility patent	Kunshan Sany Heavy Machinery Co., Ltd.	PRC	November 14, 2002	November 14, 2012
Multipurpose excavator cover (多用途挖掘機外罩)	200420034938.7	Utility patent	Kunshan Sany Heavy Machinery Co., Ltd.	PRC	January 18, 2004	January 18, 2014
Wheel stand for placing small parts (小零件擺放輪架)	200420035757.6	Utility patent	Kunshan Sany Heavy Machinery Co., Ltd.	PRC	April 30, 2004	April 30, 2014
Grease non-return valve (黃油單向閥)	200420035758.0	Utility patent	Kunshan Sany Heavy Machinery Co., Ltd.	PRC	April 30, 2004	April 30, 2014
Anti-skid tool box (防滑工具箱)	200420035759.5	Utility patent	Kunshan Sany Heavy Machinery Co., Ltd.	PRC	April 30, 2004	April 30, 2014

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Processing center operation-table protective cover (加工中心工作台防護罩)	200420035839.0	Utility patent	Kunshan Sany Heavy Machinery	PRC	May 12, 2004	May 12, 2014
Excavator touch screen mounting mechanism (挖掘機觸摸屏安裝機構)	200420035840.3	Utility patent	Kunshan Sany Heavy Machinery	PRC	May 12, 2004	May 12, 2014
Driver's cab support mechanism (駕駛室支撐機構)	200420035882.7	Utility patent	Kunshan Sany Heavy Machinery	PRC	May 17, 2004	May 17, 2014
Excavator crawler-support turning-over fitting device (挖掘機履帶架翻轉工裝裝置)	200420035933.6	Utility patent	Kunshan Sany Heavy Machinery	PRC	May 21, 2004	May 21, 2014
Welding structural member planeness check tool (焊接結構件平面度檢具)	200420036048.X	Utility patent	Kunshan Sany Heavy Machinery	PRC	June 2, 2004	June 2, 2014
Welding structural member hole site check tool (焊接結構件孔位檢具)	200420036049.4	Utility patent	Kunshan Sany Heavy Machinery	PRC	June 2, 2004	June 2, 2014
Special top cup of diesel oil engine for excavator (挖掘機用柴油機專用端蓋)	200420068467.1	Utility patent	Kunshan Sany Heavy Machinery	PRC	August 20, 2004	August 20, 2014
Open-close type cab front window (可開閉式駕駛室前窗)	200620051150.6	Utility patent	Sany Heavy Machinery	PRC	May 31, 2006	May 31, 2016
Cab's door (駕駛室的車門)	200620051151.0	Utility patent	Sany Heavy Machinery	PRC	May 31, 2006	May 31, 2016
Movable decorative plate device for cab's door (駕駛室車門的活動裝飾板裝置)	200620051152.5	Utility patent	Sany Heavy Machinery	PRC	May 31, 2006	May 31, 2016
Elevation self-adaptive excavator (海拔自適應挖掘機)	200620051153.X	Utility patent	Sany Heavy Machinery	PRC	May 31, 2006	May 31, 2016
Small angle slewing equipment for small-sized excavator (小型挖掘機用小角度回轉裝置)	200720034528.6	Utility patent	Sany Heavy Machinery	PRC	February 12, 2007	February 12, 2017
Adjustable walking vibration test track of engineering machinery (工程機械可調式行走振動試驗跑道)	200720034717.3	Utility patent	Sany Heavy Machinery	PRC	February 13, 2007	February 13, 2017

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Excavator movable arm assembling welding fixture (挖掘機動臂組焊用工裝)	200720034714.X	Utility patent	Sany Heavy Machinery	PRC	February 13, 2007	February 13, 2017
Excavator bucket rod assembling welding fixture (挖掘機斗杆組焊用工裝)	200720036013.X	Utility patent	Sany Heavy Machinery	PRC	April 19, 2007	April 19, 2017
Excavator cover (挖掘機機頂罩)	200720034527.1	Utility patent	Sany Heavy Machinery	PRC	February 12, 2007	February 12, 2017
A type of excavator bucket lever hydraulic pipe mounting structure (一種挖掘機斗杆液壓管安裝結構)	200720034639.7	Utility patent	Sany Heavy Machinery	PRC	February 9, 2007	February 9, 2017
Lubricant oil filling apparatus for excavator movable arm (挖掘機動臂潤滑油加注裝置)	200720034643.3	Utility patent	Sany Heavy Machinery	PRC	February 9, 2007	February 9, 2017
Anti-tipping device for hydraulic excavator (液壓挖掘機防傾翻裝置)	200720036001.7	Utility patent	Sany Heavy Machinery	PRC	April 19, 2007	April 19, 2017
Fixture tool for main oilway sebific duct screw nail fixing (用於主油路膠管螺釘固定的工裝工具)	200720040726.3	Utility patent	Sany Heavy Machinery	PRC	July 13, 2007	July 13, 2017
Hand-operated hydraulic reversing valve operation rod locking device (手動液壓換向閥操縱杆的鎖定裝置)	200720040727.8	Utility patent	Sany Heavy Machinery	PRC	July 13, 2007	July 13, 2017
Anti-collision alarm device of remover (拆除機防撞報警裝置)	200720046935.9	Utility patent	Sany Heavy Machinery	PRC	September 3, 2007	September 3, 2017
A type of remover frame (一種拆除機車架)	200820033925.6	Utility patent	Sany Heavy Machinery	PRC	March 28, 2008	March 28, 2018
Oil supplying device of diesel engine (柴油發動機供油裝置)	200820034910.1	Utility patent	Sany Heavy Machinery	PRC	April 2, 2008	April 2, 2018
Link mechanism of backhoe excavator (反鏟挖掘機的連杆機構)	200820116413.6	Utility patent	Sany Heavy Machinery	PRC	May 8, 2008	May 8, 2018
Three-pump confluence control device for excavator (挖掘機三泵合流控制裝置)	200820116408.5	Utility patent	Sany Heavy Machinery	PRC	May 8, 2008	May 8, 2018

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
A type of positive flow control device for hydraulic excavator (一種液壓挖掘機正流量控制裝置)	200820111761.4	Utility patent	Sany Heavy Machinery	PRC	May 8, 2008	May 8, 2018
Slewing lock used for slewing mechanism (用於回轉機構上的回轉鎖定裝置)	200820160072.2	Utility patent	Sany Heavy Machinery	PRC	September 26, 2008	September 26, 2018
A type of diesel engine limit structure for engineering machinery (一種用於工程機械柴油機限位結構)	200920037639.1	Utility patent	Sany Heavy Machinery	PRC	January 8, 2009	January 8, 2019
A type of integral-type power bay of large-sized hydraulic excavator (一種大型液壓挖掘機整體式動力艙)	200920037593.3	Utility patent	Sany Heavy Machinery	PRC	February 9, 2009	February 9, 2019
A type of alarm device used on engineering machinery (一種用於工程機械上的報警裝置)	200920036562.6	Utility patent	Sany Heavy Machinery	PRC	February 23, 2009	February 23, 2019
Spanner for excavator filter element (挖掘機濾芯用扳手)	200920037595.2	Utility patent	Sany Heavy Machinery	PRC	February 9, 2009	February 9, 2019
A type of protective shield for pipelines of excavator (一種挖掘機的管路保護罩)	200920037594.8	Utility patent	Sany Heavy Machinery	PRC	February 9, 2009	February 9, 2019
A type of grease bucket placing structure for excavator (一種用於挖掘機的黃油桶放置結構)	200920037643.8	Utility patent	Sany Heavy Machinery	PRC	January 8, 2009	January 8, 2019
A type of control box for excavator cab (一種用於挖掘機駕駛室內的操縱箱)	200920042208.4	Utility patent	Sany Heavy Machinery	PRC	March 19, 2009	March 19, 2019
A type of connection device for telescopic frame (一種用於伸縮車架上的聯接裝置)	200920042206.5	Utility patent	Sany Heavy Machinery	PRC	March 19, 2009	March 19, 2019
Pilot operation mechanism of excavator (挖掘機先導閥操縱機構)	200920042207.X	Utility patent	Sany Heavy Machinery	PRC	March 19, 2009	March 19, 2019
A type of excavator bucket rod (一種挖掘機斗杆)	200920036561.1	Utility patent	Sany Heavy Machinery	PRC	February 23, 2009	February 23, 2019

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Slide assembly (滑梯總成)	200920043822.2	Utility patent	Sany Heavy Machinery	PRC	May 13, 2009	May 13, 2019
A type of excavator cover (一種用於挖掘機的機頂罩)	200920046112.5	Utility patent	Sany Heavy Machinery	PRC	May 31, 2009	May 31, 2019
A type of locking device for telescopic frame (一種用於伸縮車架上的鎖定機 構)	200920047057.1	Utility patent	Sany Heavy Machinery	PRC	July 8, 2009	July 8, 2019
Excavator shovel (挖掘機用的鏟斗)	200920047055.2	Utility patent	Sany Heavy Machinery	PRC	July 8, 2009	July 8, 2019
Excavator packing protective cover in transit (挖掘機運輸包裝防護罩)	200920048063.9	Utility patent	Sany Heavy Machinery	PRC	August 27, 2009	August 27, 2019
A type of excavator operating direction judgment device (一種挖掘機運行方向的判斷裝 置)	200920048062.4	Utility patent	Sany Heavy Machinery	PRC	August 27, 2009	August 27, 2019
A type of power protection circuit for engineering machinery (一種工程機械控制器的電源保 護電路)	200920048066.2	Utility patent	Sany Heavy Machinery	PRC	August 27, 2009	August 27, 2019
Walking device crawler protective plate (行走裝置履帶護板)	200920048067.7	Utility patent	Sany Heavy Machinery	PRC	August 27, 2009	August 27, 2019
Centrifugal filter (離心式濾清器)	200920235331.8	Utility patent	Sany Heavy Machinery	PRC	September 22, 2009	September 22, 2019
Base for dust collector air-breathing arm (用於除塵器吸氣臂上的底座)	200920233471.1	Utility patent	Sany Heavy Machinery	PRC	July 22, 2009	July 22, 2019
Portable electrostatic dust collector (可移動靜電式除塵器)	200920233470.7	Utility patent	Sany Heavy Machinery	PRC	July 22, 2009	July 22, 2019
Oil stealing and leaking proof and alarming device for engineering machinery (用於工程機械的防偷油漏油報 警裝置)	200920233309.X	Utility patent	Sany Heavy Machinery	PRC	July 23, 2009	July 23, 2019
A type of double-machine redundancy control device (一種雙機冗餘控制裝置)	200920268001.9	Utility patent	Sany Heavy Machinery	PRC	November 2, 2009	November 2, 2019
A type of general frequency inverter (一種通用變頻器)	200920285312.6	Utility patent	Sany Heavy Machinery	PRC	December 17, 2009	December 17, 2019

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
A type of controller support frame for excavator driver's cab (一種挖掘機駕駛室用控制器支架結構)	201020101954.9	Utility patent	Sany Heavy Machinery	PRC	January 22, 2010	January 22, 2020
Control display system for engineering machinery (工程機械用控制顯示系統)	201020114794.1	Utility patent	Sany Heavy Machinery	PRC	February 5, 2010	February 5, 2020
High precision PWM driving circuit (高精度PWM驅動電路)	201020114803.7	Utility patent	Sany Heavy Machinery	PRC	February 5, 2010	February 5, 2020
Oil return pipe structure for excavator (挖掘機的回油管路結構)	201020114792.2	Utility patent	Sany Heavy Machinery	PRC	February 5, 2010	February 5, 2020
Air filter for engine (發動機用空氣濾清器)	201020133134.8	Utility patent	Sany Heavy Machinery	PRC	March 8, 2010	March 8, 2020
Excavator (挖掘機)	200430029815.X	Design patent	Sany Heavy Machinery	PRC	April 30, 2004	April 30, 2014
Counter-weight for excavator (挖掘機用配重)	200430029816.4	Design patent	Sany Heavy Machinery	PRC	April 30, 2004	April 30, 2014
Cover (機頂罩)	200430029817.9	Design patent	Sany Heavy Machinery	PRC	April 30, 2004	April 30, 2014
Counter-weight casings for excavator (sy60c) (挖掘機配重外殼 (sy60c))	200730029695.7	Design patent	Sany Heavy Machinery	PRC	April 6, 2007	April 6, 2017
Excavator (挖掘機 (小螳螂))	200730029700.4	Design patent	Sany Heavy Machinery	PRC	April 6, 2007	April 6, 2017
Engineering machinery driver's cab (工程機械駕駛室)	200830025705.4	Design patent	Sany Heavy Machinery	PRC	March 28, 2008	March 28, 2018
Excavator floor mat (挖掘機地板墊)	200930028054.9	Design patent	Sany Heavy Machinery	PRC	March 19, 2009	March 19, 2019
Excavator cover (挖掘機機頂罩)	200930027858.7	Design patent	Sany Heavy Machinery	PRC	January 6, 2009	January 6, 2019
Excavator interior (挖掘機內飾)	200930026319.1	Design patent	Sany Heavy Machinery	PRC	February 6, 2009	February 6, 2019
Carrier (抓鋼機)	200930026318.7	Design patent	Sany Heavy Machinery	PRC	February 6, 2009	February 6, 2019
Excavator driver's cab (挖掘機駕駛室)	200930026363.2	Design patent	Sany Heavy Machinery	PRC	February 9, 2009	February 9, 2019
Excavator (挖掘機)	200930035416.7	Design patent	Sany Heavy Machinery	PRC	May 22, 2009	May 22, 2019

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Calibration system (標定系統)	200930048994.4	Design patent	Sany Heavy Machinery	PRC	June 24, 2009	June 24, 2019
Display screen (顯示屏)	200930052869.0	Design patent	Sany Heavy Machinery	PRC	July 8, 2009	July 8, 2019
Display screen (顯示屏)	200930051758.8	Design patent	Sany Heavy Machinery	PRC	July 9, 2009	July 9, 2019
Cover (機頂罩)	200930035417.1	Design patent	Sany Heavy Machinery	PRC	May 22, 2009	May 22, 2019
Hydraulic excavator (液壓挖掘機)	200930035418.6	Design patent	Sany Heavy Machinery	PRC	May 22, 2009	May 22, 2019
Hydraulic excavator (液壓挖掘機)	200930034312.4	Design patent	Sany Heavy Machinery	PRC	May 31, 2009	May 31, 2019
Excavator shovel (挖掘機鏟斗)	200930047454.4	Design patent	Sany Heavy Machinery	PRC	June 12, 2009	June 12, 2019
Excavator shovel (挖掘機鏟斗)	200930035419.0	Design patent	Sany Heavy Machinery	PRC	May 22, 2009	May 22, 2019
Excavator (挖掘機 (SY75C3))	200930281698.9	Design patent	Sany Heavy Machinery	PRC	September 22, 2009	September 22, 2019
Vehicle lamp (車燈)	200930281699.3	Design patent	Sany Heavy Machinery	PRC	September 22, 2009	September 22, 2019
Vehicle applique (SY series excavator) (車身貼花 (SY系列挖掘機))	200930264670.4	Design patent	Sany Heavy Machinery	PRC	October 27, 2009	October 27, 2019
Vehicle applique (SY series excavator) (車身貼花 (SY系列挖掘機))	200930264659.8	Design patent	Sany Heavy Machinery	PRC	October 28, 2009	October 28, 2019
Excavator cover (挖掘機機頂罩 (135C8M))	200930263996.5	Design patent	Sany Heavy Machinery	PRC	November 6, 2009	November 6, 2019
Hydraulic excavator (液壓挖掘機 (SY55))	200930687514.9	Design patent	Sany Heavy Machinery	PRC	December 31, 2009	December 31, 2019
High negative pressure welding smoke dust collector (portable) (高負壓焊煙除塵器 (可移動式))	201030108444.X	Design patent	Sany Heavy Machinery	PRC	February 5, 2010	February 5, 2020
Excavator driver's cab (挖掘機駕駛室)	01333430.1	Design patent	Sany Heavy Machinery	PRC	July 13, 2001	July 13, 2011

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Alarm apparatus for engine lock type drill rod misoperation (機鎖式鑽杆帶杆報警裝置)	200510132376.9	Invention patent	Beijing Sany Heavy Machinery	PRC	December 26, 2005	December 26, 2025
Flexible pipe coiling apparatus and applied engineering machinery thereof (軟管捲繞裝置及其所應用的工程機械)	200810106538.5	Invention patent	Beijing Sany Heavy Machinery	PRC	May 14, 2008	May 14, 2028
A type of gin pole turnover mechanism (一種桅杆翻轉機構)	200810116001.7	Invention patent	Beijing Sany Heavy Machinery	PRC	July 1, 2008	July 1, 2028
Hoist voltage-applying device (卷揚加壓裝置)	200710177908.X	Invention patent	Beijing Sany Heavy Machinery	PRC	November 22, 2007	November 22, 2027
Composite drill rod (複合鑽杆)	200520145088.2	Utility patent	Beijing Sany Heavy Machinery	PRC	December 26, 2005	December 26, 2015
Electric simulation test system for rotary drilling rigs (一種旋挖鑽機電氣仿真測試系統)	200820123744.2	Utility patent	Beijing Sany Heavy Machinery	PRC	November 18, 2008	November 18, 2018
Overload buffer device (過載緩衝裝置)	200820079485.8	Utility patent	Beijing Sany Heavy Machinery	PRC	March 19, 2008	March 19, 2018
Gearbox case body (減速箱箱體)	200720169620.3	Utility patent	Beijing Sany Heavy Machinery	PRC	July 9, 2007	July 9, 2017
Hoist voltage-applying device (卷揚加壓裝置)	200720169655.7	Utility patent	Beijing Sany Heavy Machinery	PRC	July 10, 2007	July 10, 2017
Multifunctional keyboard housing (多功能鍵套)	200720169618.6	Utility patent	Beijing Sany Heavy Machinery	PRC	July 9, 2007	July 9, 2017
Earth clearing device (清土裝置)	200720169654.2	Utility patent	Beijing Sany Heavy Machinery	PRC	July 10, 2007	July 10, 2017
Buffer box case body (緩衝箱箱體)	200720169619.0	Utility patent	Beijing Sany Heavy Machinery	PRC	July 9, 2007	July 9, 2017
Power head key sleeve (動力頭鍵套)	200720169616.7	Utility patent	Beijing Sany Heavy Machinery	PRC	July 9, 2007	July 9, 2017
Hoist wire rope voltage-applying device (卷揚鋼絲繩加壓裝置)	200720169656.1	Utility patent	Beijing Sany Heavy Machinery	PRC	July 10, 2007	July 10, 2017

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Grab bucket (抓斗)	200620113857.5	Utility patent	Beijing Sany Heavy Machinery	PRC	May 18, 2006	May 18, 2016
Rotary drilling rig mast (旋挖鑽機桅杆)	200620113858.X	Utility patent	Beijing Sany Heavy Machinery	PRC	May 18, 2006	May 18, 2016
Rotating device of rotary table of drilling machine (鑽機的轉盤轉動裝置)	200620113674.3	Utility patent	Beijing Sany Heavy Machinery	PRC	May 17, 2006	May 17, 2016
Robe guiding device (壓繩器)	200620113859.4	Utility patent	Beijing Sany Heavy Machinery	PRC	May 18, 2006	May 18, 2016
Mechanical lock rod of rotary drilling rig (旋挖鑽機的機鎖杆)	200620118708.8	Utility patent	Beijing Sany Heavy Machinery	PRC	June 13, 2006	June 13, 2016
Hydraulic motor and speed reducer assembly (液壓馬達與減速機組件)	200620113860.7	Utility patent	Beijing Sany Heavy Machinery	PRC	May 18, 2006	May 18, 2016
Sand dredge-out dipper capable of automatic opening (可自動開啓的撈砂斗)	200520145084.4	Utility patent	Beijing Sany Heavy Machinery	PRC	December 26, 2005	December 26, 2015
Double drum winding machine (雙筒捲揚機)	200520145090.X	Utility patent	Beijing Sany Heavy Machinery	PRC	December 26, 2005	December 26, 2015
Intelligent dip tension detecting device (智能傾角拉力檢測裝置)	200520146627.4	Utility patent	Beijing Sany Heavy Machinery	PRC	December 23, 2005	December 23, 2015
Revolving-control method (回轉控制系統)	200520145087.8	Utility patent	Beijing Sany Heavy Machinery	PRC	December 26, 2005	December 26, 2015
Open-type drill hopper (體開式鑽斗)	200520146632.5	Utility patent	Beijing Sany Heavy Machinery	PRC	December 23, 2005	December 23, 2015
Welding squarehead for drilling rod of rotary drilling rig (用於旋挖鑽機鑽杆的焊接方頭)	200520146634.4	Utility patent	Beijing Sany Heavy Machinery	PRC	December 23, 2005	December 23, 2015
Rotary disc (轉盤裝置)	200520146633.X	Utility patent	Beijing Sany Heavy Machinery	PRC	December 23, 2005	December 23, 2015
Drilling rod support mechanism for drilling rig (鑽機用鑽杆支撐機構)	200420084059.5	Utility patent	Beijing Sany Heavy Machinery	PRC	July 19, 2004	July 19, 2014
Bucket bottom opening drilling rig (斗携底開式鑽具)	200420084061.2	Utility patent	Beijing Sany Heavy Machinery	PRC	July 19, 2004	July 19, 2014

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Power head of rotary drilling rig (旋挖鑽機動力頭)	200420084051.9	Utility patent	Beijing Sany Heavy Machinery	PRC	July 19, 2004	July 19, 2014
Bucket opening type drilling rig (斗携體開式鑽具)	200420084062.7	Utility patent	Beijing Sany Heavy Machinery	PRC	July 19, 2004	July 19, 2014
Mud injection rotation sealing device for rotary drilling rig (螺旋鑽機用注漿回轉密封裝置)	200420084053.8	Utility patent	Beijing Sany Heavy Machinery	PRC	July 19, 2004	July 19, 2014
Drum type cable hoist rope guiding device (滾筒式捲揚機壓繩器)	200420084056.1	Utility patent	Beijing Sany Heavy Machinery	PRC	July 19, 2004	July 19, 2014
Telescopic crawler electrohydraulic pile machine (伸縮履帶電液樁機)	200420084052.3	Utility patent	Beijing Sany Heavy Machinery	PRC	July 19, 2004	July 19, 2014
Sealing joint (密封接頭)	200420084058.0	Utility patent	Beijing Sany Heavy Machinery	PRC	July 19, 2004	July 19, 2014
Truck-mounted rotary drilling rig (旋挖鑽車)	200420013790.9	Utility patent	Beijing Sany Heavy Machinery	PRC	October 27, 2004	October 27, 2014
Spiral drilling bit with telescopic tip (具有可伸縮鑽尖的螺旋鑽頭)	200420115355.7	Utility patent	Beijing Sany Heavy Machinery	PRC	November 23, 2004	November 23, 2014
Rotary drilling rig mast (旋挖鑽機桅杆)	200420115356.1	Utility patent	Beijing Sany Heavy Machinery	PRC	November 23, 2004	November 23, 2014
Protective device of drilling rod thread (鑽杆絲扣保護裝置)	200520145092.9	Utility patent	Beijing Sany Heavy Machinery	PRC	December 26, 2005	December 26, 2015
Grab bucket correcting device (抓斗糾偏裝置)	200520145091.4	Utility patent	Beijing Sany Heavy Machinery	PRC	December 26, 2005	December 26, 2015
Spring rotary rolling device (彈簧滾筒卷管裝置)	200520145089.7	Utility patent	Beijing Sany Heavy Machinery	PRC	December 26, 2005	December 26, 2015
A type of pile clamp device for press-in pile driver (一種用於壓樁機的夾樁裝置)	200420084055.7	Utility patent	Beijing Sany Heavy Machinery	PRC	July 19, 2004	July 19, 2014
Power head of multi-axis drilling rig (多軸鑽機動力頭)	200420084054.2	Utility patent	Beijing Sany Heavy Machinery	PRC	July 19, 2004	July 19, 2014
Motor driven folding mast (機動折疊桅杆)	200420013789.6	Utility patent	Beijing Sany Heavy Machinery	PRC	October 27, 2004	October 27, 2014

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Tuber-rubbing drilling rig (搓管鑽機)	200920108674.8	Utility patent	Beijing Sany Heavy Machinery	PRC	June 1, 2009	June 1, 2019
A type of tuber-rubbing device and tuber-rubbing drilling rig (一種搓管裝置及搓管鑽機)	200920108757.7	Utility patent	Beijing Sany Heavy Machinery	PRC	June 12, 2009	June 12, 2019
A type of multifunctional drilling rig and mastrotating device thereof (一種多功能鑽機及其桅杆旋轉 裝置)	200920165365.4	Utility patent	Beijing Sany Heavy Machinery	PRC	June 30, 2009	June 30, 2019
New drill rod for downhole drill (潛孔鑽機用新型鑽杆)	200920108800.X	Utility patent	Beijing Sany Heavy Machinery	PRC	June 24, 2009	June 24, 2019
Adjustable display rack (可調顯示器支架)	200920108799.0	Utility patent	Beijing Sany Heavy Machinery	PRC	June 24, 2009	June 24, 2019
Pneumatic shock hammer (氣動衝擊錘)	200920109001.4	Utility patent	Beijing Sany Heavy Machinery	PRC	June 24, 2009	June 24, 2019
Automatic drill rod holding device (鑽杆自動夾持裝置)	200820233856.3	Utility patent	Beijing Sany Heavy Machinery	PRC	December 26, 2008	December 26, 2018
Auxiliary counterweight of rotary drilling rig (旋挖鑽機的副配重)	200820124580.5	Utility patent	Beijing Sany Heavy Machinery	PRC	December 25, 2008	December 25, 2018
Drill rod breaker (鑽杆用卸扣器)	200520146626.X	Utility patent	Beijing Sany Heavy Machinery	PRC	December 23, 2005	December 23, 2015
Rotating encoder for reversing chassis (回轉底盤用旋轉編碼器)	200520145086.3	Utility patent	Beijing Sany Heavy Machinery	PRC	December 26, 2005	December 26, 2015
Tuber-rubbing drilling rig (搓管鑽機)	200920172967.2	Utility patent	Beijing Sany Heavy Machinery	PRC	August 19, 2009	August 19, 2019
Grappling bucket for underground sequential wall and pulley mechanism thereof (地下連續牆抓斗及其滑輪機構)	200920222240.0	Utility patent	Beijing Sany Heavy Machinery	PRC	August 28, 2009	August 28, 2019
Power head transit key sleeve (動力頭過渡鍵套)	200920110321.1	Utility patent	Beijing Sany Heavy Machinery	PRC	July 23, 2009	July 23, 2019
Locking device for lengthened drilling rod (加長鑽杆防脫裝置)	200920110323.0	Utility patent	Beijing Sany Heavy Machinery	PRC	July 23, 2009	July 23, 2019

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Horizontal oriented carbon brush device (水平定向鑽碳刷裝置)	200920110322.6	Utility patent	Beijing Sany Heavy Machinery	PRC	July 23, 2009	July 23, 2019
Boring machine and clamp thereof (鏜床及鏜床夾具)	200920110619.2	Utility patent	Beijing Sany Heavy Machinery	PRC	July 31, 2009	July 23, 2019
High-low dual speed pressurizing system for rotary drilling rigs (旋挖鑽機高低雙速加壓系統)	200920309021.6	Utility patent	Beijing Sany Heavy Machinery	PRC	August 27, 2009	August 27, 2019
A type of channel iron (一種地規)	200920110470.8	Utility patent	Beijing Sany Heavy Machinery	PRC	July 30, 2009	July 30, 2019
A type of sequential wall grappling bucket grooving machine (一種連續牆抓斗成槽機)	200920223031.8	Utility patent	Beijing Sany Heavy Machinery	PRC	September 21, 2009	September 21, 2019
A type of rotary drilling rigs (一種旋挖鑽機)	200920246265.4	Utility patent	Beijing Sany Heavy Machinery	PRC	October 15, 2009	October 15, 2019
A type of rotary drilling rigs negative flux control hydraulic system and rotary drilling rigs (一種旋挖鑽機負流量控制液壓系統及旋挖鑽機)	200920173083.9	Utility patent	Beijing Sany Heavy Machinery	PRC	September 8, 2009	September 8, 2019
A type of rotary drilling rigs and drilling device thereof (一種旋挖鑽機及其鑽進裝置)	200920110471.2	Utility patent	Beijing Sany Heavy Machinery	PRC	July 30, 2009	July 30, 2019
A type of rotary drilling tool and rotary drilling rigs therewith (一種旋挖鑽具及包括該鑽具的旋挖鑽機)	200920222766.9	Utility patent	Beijing Sany Heavy Machinery	PRC	September 15, 2009	September 15, 2019
Rotary sealing joint for drilling machine (鑽機旋轉密封接頭)	200920311033.2	Utility patent	Beijing Sany Heavy Machinery	PRC	September 22, 2009	September 22, 2019
Spiral drill pipe cleaning soil device (螺旋鑽杆清土裝置)	200920308321.2	Utility patent	Beijing Sany Heavy Machinery	PRC	August 19, 2009	August 19, 2019
A type of engine lock type drill rod and engineering machinery comprising the drill rod (一種機鎖式鑽杆及包括該鑽杆的工程機械)	200920222818.2	Utility patent	Beijing Sany Heavy Machinery	PRC	September 10, 2009	September 10, 2019

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
A type of mast device and rotary drilling rig comprising the device (一種桅杆裝置及包括該裝置的旋挖鑽機)	200920246537.0	Utility patent	Beijing Sany Heavy Machinery	PRC	October 30, 2009	October 30, 2019
Down-the-hole drill and its connector (潛孔鑽機及其連接器)	200920277645.4	Utility patent	Beijing Sany Heavy Machinery	PRC	November 30, 2009	November 30, 2019
Engineering machinery and mast driving mechanism thereof (工程機械及其桅杆驅動機構)	200920277647.3	Utility patent	Beijing Sany Heavy Machinery	PRC	November 30, 2009	November 30, 2019
A type of power head sliding device and horizontal directional drill containing the same (一種動力頭滑動裝置及包括該裝置的水平定向鑽機)	200920277646.9	Utility patent	Beijing Sany Heavy Machinery	PRC	November 30, 2009	November 30, 2019
Rotary excavating drill mounted on crane track and slippage mechanism thereof (旋挖鑽車及其滑移機構)	201020046884.1	Utility patent	Beijing Sany Heavy Machinery	PRC	January 19, 2010	January 19, 2020
Grab bucket and sludge scraper thereof (抓斗及其刮泥器)	200920223171.5	Utility patent	Beijing Sany Heavy Machinery	PRC	September 29, 2009	September 29, 2019
A type of rotary drilling rig and rotary drilling tools thereof (一種旋挖鑽機及其旋挖鑽具)	200920246538.5	Utility patent	Beijing Sany Heavy Machinery	PRC	October 30, 2009	October 30, 2019
A type of double power drilling rig and power head device thereof (一種雙動力鑽機及其動力頭裝置)	201020149116.9	Utility patent	Beijing Sany Heavy Machinery	PRC	March 31, 2010	March 31, 2020
Rotary drilling rig and mast breadth-changing device (旋挖鑽機及其桅杆變幅裝置)	201020198394.3	Utility patent	Beijing Sany Heavy Machinery	PRC	May 21, 2010	May 21, 2020
Downhole drill (潛孔鑽機)	200830131141.2	Design patent	Beijing Sany Heavy Machinery	PRC	December 26, 2008	December 26, 2018
Horizontal oriented drill (SD7535) (水平定向鑽機 (SD7535))	200730328062.6	Design patent	Beijing Sany Heavy Machinery	PRC	December 21, 2007	December 21, 2017
Testing table for deviation metering system (測偏系統試驗台)	200930269386.6	Design patent	Beijing Sany Heavy Machinery	PRC	December 31, 2009	December 31, 2019

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Control method and control device for driving hydraulic system of engineering vehicle by single pump and double motors (單泵雙馬達驅動工程車輛液壓系統的控制方法及控制裝置)	200810176483.5	Invention patent	our Company	PRC	November 13, 2008	November 13, 2028
A type of vertical agitating apparatus and stirring method (一種立式攪拌裝置以及攪拌方法)	200810173077.3	Invention patent	our Company	PRC	November 26, 2008	November 26, 2028
A type of truck-mounted concrete pump and riding wheel thereof (一種混凝土攪拌車及其托輪)	200910158730.3	Invention patent	our Company	PRC	July 3, 2009	July 3, 2029
A type of protection method and system for electric control diesel engine (一種電控柴油發動機的保护方法及系統)	200910151426.6	Invention patent	our Company	PRC	July 17, 2009	July 17, 2029
Revolving device for mixer truck discharge chute and mixer truck therewith (攪拌運輸車卸料槽的回轉裝置及具有該裝置的攪拌運輸車)	200910223510.4	Invention patent	our Company	PRC	November 23, 2009	November 23, 2029
Concrete pumping equipment and piston body thereof (混凝土泵送設備及其活塞體)	200920219197.2	Utility patent	our Company	PRC	October 22, 2009	October 22, 2019
Clamping cylinder capable of automatic resetting and loader-digger (自動複位夾緊油缸及挖掘裝載機)	200920318533.9	Utility patent	Our Company	PRC	2009-12-25	2019-12-25
A type of mortar grouting device (一種砂漿灌漿裝置)	200920350413.7	Utility patent	our Company	PRC	December 28, 2009	December 28, 2019
Concrete truck-mixer with lifting device (帶舉升裝置的混凝土攪拌運輸車)	200710034828.9	Invention patent	our Company	PRC	April 27, 2007	April 27, 2027
Positioning device of jib system, jib system, concrete pump and cloth bracket (臂架系統的定位裝置、臂架系統、混凝土泵車及布料架)	200920350123.2	Utility patent	our Company	PRC	December 25, 2009	December 25, 2019

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
A type of wireless link backup system (一種無線鏈路備份系統)	200920351920.2	Utility patent	our Company	PRC	December 30, 2009	December 30, 2019
Lubricating system and refilling device thereof (潤滑系統及其裝油裝置)	201020148480.3	Utility patent	our Company	PRC	March 17, 2010	March 17, 2020
Ball joint type concrete piston and concrete pumping equipment with the same (球窩關節式砼活塞及包含該砼活塞的混凝土泵送設備)	200920312334.7	Utility patent	our Company	PRC	October 13, 2009	October 13, 2019
Pre-positioning device for connecting upright supporting post with platform in mixing plant and mixing system (用於攪拌站支撐立柱與平台連接的預定位裝置及攪拌系統)	200920313781.4	Utility patent	our Company	PRC	October 30, 2009	October 30, 2019
A type of driving device, unloading door driving device of main mixing machine and mixing machine (一種驅動裝置、攪拌主機卸料門的驅動裝置及攪拌機)	200920316020.4	Utility patent	our Company	PRC	November 27, 2009	November 27, 2019
Guiding fork for mortar vehicle and mortar vehicle with the same (用於砂漿車的導向叉及砂漿車)	200920317596.2	Utility patent	our Company	PRC	December 16, 2009	December 16, 2019
Conveying cylinder suction apparatus for concrete pumping system and concrete pumping system (混凝土泵送系統用輸送缸吸氣裝置及混凝土泵送系統)	200920317932.3	Utility patent	our Company	PRC	December 21, 2009	December 21, 2019
Cylinder assembly for engineering machinery and engineering machinery with the same (工程機械用油缸總成及工程機械)	200920318031.6	Utility patent	our Company	PRC	December 22, 2009	December 22, 2019
Cleaning device for concrete conveying pipe and concrete pump (用於混凝土輸送管的清洗裝置及混凝土泵)	200920318269.9	Utility patent	our Company	PRC	December 23, 2009	December 23, 2019

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Vehicle-mounted accumulator box and single steel-wheeled road roller with same (車載蓄電池箱以及具有該車載蓄電池箱的單鋼輪壓路機)	200920318311.7	Utility patent	our Company	PRC	December 23, 2009	December 23, 2019
Dust removal device for main mixing machine and mortar vehicle with the same (攪拌主機用除塵裝置及其砂漿車)	200920318403.5	Utility patent	our Company	PRC	December 24, 2009	December 24, 2019
Refilling valve and vehicle brake hydraulic system (充液閥及車輛制動液壓系統)	200920318743.8	Utility patent	our Company	PRC	December 28, 2009	December 28, 2019
Automatic dropping and overload-proof clamping sling and delivery truck therewith (自動脫落防超載鉗式吊具以及具有該吊具的輸送車)	201020125363.5	Utility patent	our Company	PRC	March 8, 2010	March 8, 2020
Road roller and vibratory wheel supporting arrangement thereof (壓路機振動輪的支承結構及壓路機)	201020140135.5	Utility patent	our Company	PRC	March 24, 2010	March 24, 2020
A type of liquid cooling device (一種液體冷卻裝置)	201020160507.0	Utility patent	our Company	PRC	April 15, 2010	April 15, 2020
Active sealing scroll case and spreader thereof (主動密封螺旋箱及其攤鋪機)	201020165099.8	Utility patent	our Company	PRC	April 21, 2010	April 21, 2020
A type of stairway device and spreader (一種踏梯裝置及攤鋪機)	201020168995.X	Utility patent	our Company	PRC	April 23, 2010	April 23, 2020
Fork and loader (叉體裝置及裝載機)	201020302782.1	Utility patent	our Company	PRC	February 9, 2010	February 9, 2020
A type of integral lifting screw material-diverter device and spreader therewith (一種整體提升式螺旋分料裝置以及具有該裝置的攤鋪機)	201020109059.1	Utility patent	our Company	PRC	February 5, 2010	February 5, 2020
Potential energy recovery hydraulic system for truck-mounted concrete pump (混凝土泵車的勢能回收液壓系統)	200920293207.7	Utility patent	our Company	PRC	December 11, 2009	December 11, 2019
Concrete pumping mechanism (混凝土泵送結構)	201020131977.4	Utility patent	our Company	PRC	March 16, 2010	March 16, 2020

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Mortar vehicle and exterior wall panel thereof (砂漿車外牆板及砂漿車)	200920350008.5	Utility patent	our Company	PRC	December 25, 2009	December 25, 2019
Liquid material feeding and metering conveying device and mortar vehicle (液態料加注及計量輸送裝置以及砂漿車)	201020140701.2	Utility patent	our Company	PRC	March 25, 2010	March 25, 2020
Automatic converting excessive material device and mixture stirring equipment therewith (自動轉換溢料裝置以及具有該裝置的混合料攪拌設備)	200920268794.4	Utility patent	our Company	PRC	December 31, 2009	December 31, 2019
Road roller and rotating structure thereof (壓路機回轉結構及壓路機)	201020131113.2	Utility patent	our Company	PRC	February 10, 2010	February 10, 2020
Protective hood and road roller therewith (防護罩以及套設有該防護罩的壓路機)	201020131979.3	Utility patent	our Company	PRC	March 16, 2010	March 16, 2020
Unlocking auxiliary mechanism and motor vehicle's driver's cab with the same (開鎖輔助機構以及具有該開鎖輔助機構的機動車駕駛室)	201020116778.6	Utility patent	our Company	PRC	February 23, 2010	February 23, 2020
A type of riding wheel and concrete mixer (一種托輪及攪拌車)	201020204746.1	Utility patent	our Company	PRC	May 21, 2010	May 21, 2020
A type of stirring drum and concrete mixer (一種攪拌筒及攪拌車)	201020204770.5	Utility patent	our Company	PRC	May 21, 2010	May 21, 2020
A type of crane and superlift device thereof (一種起重機及其超起裝置)	201020243819.8	Utility patent	Sany Automobile Hoisting Machinery Co., Ltd.	PRC	June 28, 2010	June 28, 2020
Mortar vehicle and measuring system for volume of the finished product bucket thereof (砂漿車及其成品斗容積檢測系統)	201020243818.3	Utility patent	our Company	PRC	June 28, 2010	June 28, 2020
A type of truck-mounted concrete pump training system (一種混凝土泵車培訓系統)	201020269280.3	Utility patent	our Company	PRC	July 22, 2010	July 22, 2020

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
A type of electrical bridge null regulating circuit (一種電橋零點調節電路)	201020244872.X	Utility patent	our Company	PRC	June 29, 2010	June 29, 2020
Truck-mounted mixer and stirring drum control system thereof (攪拌車及其攪拌筒控制系統)	201020269277.1	Utility patent	our Company	PRC	July 22, 2010	July 22, 2020
A type of mechanical articulated jib control device (一種機械鉸接臂的控制裝置)	201020249592.8	Utility patent	our Company	PRC	July 1, 2010	July 1, 2020
A type of Bluetooth device for engineering machinery (一種應用於工程機械中的藍牙設備)	201020249605.1	Utility patent	our Company	PRC	July 1, 2010	July 1, 2020
A type of single-cylinder bolt type telescopic jib device and bolt interlocking device (一種單缸插銷式伸縮臂裝置和插銷互鎖裝置)	201020237303.2	Utility patent	Sany Automobile Hoisting Machinery Co., Ltd.	PRC	June 22, 2010	June 22, 2020
A type of pumping device and swinging mechanism thereof (一種泵送裝置及其擺搖機構)	201020225927.2	Utility patent	our Company	PRC	June 10, 2010	June 10, 2020
A type of concrete batching plant (一種混凝土攪拌站)	201020229667.6	Utility patent	our Company	PRC	June 12, 2010	June 12, 2020
A type of jib system and concrete pump (一種臂架系統及混凝土泵車)	201020299885.7	Utility patent	our Company	PRC	August 19, 2010	August 19, 2020
Engineering machinery and double-acting hydraulic cylinder and single-acting hydraulic cylinder thereof (工程機械及其雙作用液壓油缸和單作用液壓油缸)	201020298775.9	Utility patent	our Company	PRC	August 18, 2010	August 18, 2020
Special tool for pumping device concrete piston (泵送裝置缸活塞的專用工具)	201020290939.3	Utility patent	our Company	PRC	August 11, 2010	August 11, 2020
Concrete pumping equipment and jib device thereof (混凝土泵送設備及其臂架裝置)	201020299864.5	Utility patent	our Company	PRC	August 19, 2010	August 19, 2020
Engineering machinery and hydraulic cylinder thereof (工程機械及其液壓油缸)	201020298799.4	Utility patent	our Company	PRC	August 18, 2010	August 18, 2020
Engineering vehicle and fuel theft and leakage prevention and monitoring device (工程車輛及其燃油防盜防泄漏監測裝置)	201020518209.4	Utility patent	our Company	PRC	September 2, 2010	September 2, 2020

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
A type of batching plant and measuring hopper thereof (一種攪拌站及其計量斗)	201020518207.5	Utility patent	our Company	PRC	September 2, 2010	September 2, 2020
Engineering machinery and rotary table jib system thereof (工程機械及其轉檯臂架系統)	201020515916.8	Utility patent	our Company	PRC	August 31, 2010	August 31, 2020
A type of movable pumping machinery (一種可移動式泵送機械)	201020521829.3	Utility patent	our Company	PRC	September 6, 2010	September 6, 2020
A type of pumping machinery (一種泵送機械)	201020539576.2	Utility patent	our Company	PRC	September 19, 2010	September 19, 2020
A type of pumping machinery (一種泵送機械)	201020539571.X	Utility patent	our Company	PRC	September 19, 2010	September 19, 2020
A type of pumping machinery (一種泵送機械)	201020539568.8	Utility patent	our Company	PRC	September 19, 2010	September 19, 2020
Concrete pump lubricating system and concrete pumping equipment (混凝土輸送泵潤滑系統及混凝土泵送設備)	201020531507.7	Utility patent	our Company	PRC	September 14, 2010	September 14, 2020
A type of concrete mixer composite blade (一種混凝土攪拌複合葉片)	201020561822.4	Utility patent	our Company	PRC	September 30, 2010	September 30, 2020
Concrete pump and ladder thereof (混凝土泵車及其梯子)	201020612403.9	Utility patent	our Company	PRC	November 17, 2010	November 17, 2020
A type of concrete pump and jib protection device thereof (一種混凝土泵車及其臂架保護裝置)	201020610398.8	Utility patent	our Company	PRC	November 16, 2010	November 16, 2020
Sprinkler and mixing plant with the same (噴灑裝置和具有該裝置的混合料拌合樓)	201020205113.2	Utility patent	our Company	PRC	May 27, 2010	May 27, 2020
Self-adjusting sliding-block, jib with the same and crane with the jib (自適應滑塊裝置及具有其的起重臂與含該起重臂的起重機)	201020218280.0	Utility patent	Sany Automobile Hoisting Machinery Co., Ltd.	PRC	June 8, 2010	June 8, 2020
Movable counterweight installation device and crane (活動配重安裝裝置和起重機)	201020228797.8	Utility patent	Sany Automobile Hoisting Machinery Co., Ltd.	PRC	June 18, 2010	June 18, 2020

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Admixture stirring system of concrete batching plant (混凝土攪拌站的摻和料攪拌系統)	201020227110.9	Utility patent	our Company	PRC	June 17, 2010	June 17, 2020
Inner-hole chamfering machine and inner-hole chamfering cutter thereof (內孔倒角機及其內孔倒角刀具)	201020230764.7	Utility patent	our Company	PRC	June 21, 2010	June 21, 2020
Vehicle and cooling structure for motor vehicle drive shaft thereof (車輛及其機動車傳動軸冷卻結構)	201020230774.0	Utility patent	Sany Automobile Hoisting Machinery Co., Ltd.	PRC	June 21, 2010	June 21, 2020
Telescopic jib and crane (伸縮式起重臂和起重機)	201020239329.0	Utility patent	Sany Automobile Hoisting Machinery Co., Ltd.	PRC	June 28, 2010	June 28, 2020
Discharging device of aggregate storage system and aggregate storage system with the same (骨料儲存系統的卸料裝置及具有該卸料裝置的骨料儲存系統)	201020239333.7	Utility patent	our Company	PRC	June 28, 2010	June 28, 2020
Discharging spout rotary control system and concrete mixer with the same (卸料槽回轉控制系統及具有該系統的混凝土攪拌車)	201020245447.2	Utility patent	our Company	PRC	July 2, 2010	July 2, 2020
Monitoring system for discharging truck-mounted mixer and truck-mounted concrete mixer therewith (攪拌車卸料監控系統及具有該系統的混凝土攪拌車)	201020245449.1	Utility patent	our Company	PRC	July 2, 2010	July 2, 2020
Wire clamping device capable of disconnection prevention and crane and telescopic jib with the same (可防止斷綫的電綫夾緊裝置及具有其的起重機及其伸縮臂)	201020265466.1	Utility patent	Sany Automobile Hoisting Machinery Co., Ltd.	PRC	July 21, 2010	July 21, 2020
Positioning device for lockpin and lockpin hole of grader and rocker frame thereof (平地機及其擺架的鎖銷和鎖銷孔的定位裝置)	201020262231.7	Utility patent	our Company	PRC	July 19, 2010	July 19, 2020

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Concrete batching plant and modularization layout pipe system thereof (混凝土攪拌站及其中的模塊化布局的管道系統)	201020239343.0	Utility patent	our Company	PRC	June 28, 2010	June 28, 2020
Double metal liquid/solid complex casting equipment (雙金屬液/固複合鑄造澆注設備)	201020240929.9	Utility patent	our Company	PRC	June 29, 2010	June 29, 2020
Unloading monitoring system and concrete mixer with the same (卸料監測系統及具有其的混凝土攪拌車)	201020240953.2	Utility patent	our Company	PRC	June 29, 2010	June 29, 2020
Bending die head and bending mould and bending machine with the same (折彎上模模頭及具有其的折彎模具和折彎機)	201020240957.0	Utility patent	Sany Automobile Hoisting Machinery Co., Ltd.	PRC	June 29, 2010	June 29, 2020
Crane and connection structure of swinging supporting leg and body thereof (起重機及其擺動支腿與車體的連接結構)	201020240967.4	Utility patent	Sany Automobile Hoisting Machinery Co., Ltd.	PRC	June 29, 2010	June 29, 2020
Self-sealing device (自封裝置)	201020224408.4	Utility patent	our Company	PRC	June 12, 2010	June 12, 2020
Flange sealing device (法蘭密封裝置)	201020224416.9	Utility patent	our Company	PRC	June 12, 2010	June 12, 2020
Hydraulic valve, hydraulic valve set, hydraulic control system and engineering machinery (液壓閥、液壓閥組、液壓控制系統及工程機械)	201020276444.5	Utility patent	our Company	PRC	July 30, 2010	July 30, 2020
Interlocking device for crane and pin-bolt type mechanism thereof (起重機及其插拔銷機構的互鎖裝置)	201020275061.6	Utility patent	Sany Automobile Hoisting Machinery Co., Ltd.	PRC	July 29, 2010	July 29, 2020
Electrohydraulic complex control device preventing crane hoisting stall (防止起重機卷揚失速的電液複合控制裝置)	201020286825.1	Utility patent	Sany Automobile Hoisting Machinery Co., Ltd.	PRC	August 10, 2010	August 10, 2020

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Disorderly rope alarm and monitoring device, crane with the same, and hoisting mechanism thereof (亂繩報警監控裝置及具有該裝置的起重機及其捲揚機構)	201020289509.X	Utility patent	Sany Automobile Hoisting Machinery Co., Ltd.	PRC	August 12, 2010	August 12, 2020
Concrete conveying pump and unloading port structure thereof (混凝土輸送泵及其出料口結構)	201020295431.2	Utility patent	our Company	PRC	August 18, 2010	August 18, 2020
Loading device for crane lifting test (起重機吊重試驗的加載裝置)	201020502339.9	Utility patent	Sany Automobile Hoisting Machinery Co., Ltd.	PRC	August 24, 2010	August 24, 2020
Crane and closed rotary control system thereof (起重機及其閉式回轉控制系統)	201020512475.6	Utility patent	Sany Automobile Hoisting Machinery Co., Ltd.	PRC	September 1, 2010	September 1, 2020
Multi-stage cylinder and hydraulic equipment therewith (多級油缸及其具有其的液壓設備)	201020510963.3	Utility patent	Sany Automobile Hoisting Machinery Co., Ltd.	PRC	August 31, 2010	August 31, 2020
Truck crane and telescopic jib thereof (汽車起重機及其伸縮臂裝置)	201020512482.6	Utility patent	Sany Automobile Hoisting Machinery Co., Ltd.	PRC	September 1, 2010	September 1, 2020
Single-pump, double-engine engineering vehicle, and hydraulic system thereof and control method therefor (單泵雙馬達驅動工程車輛及其液壓系統和控制裝置)	201020510996.8	Utility patent	our Company	PRC	August 31, 2010	August 31, 2020
Telescopic ruler (伸縮尺)	201020512488.3	Utility patent	Sany Automobile Hoisting Machinery Co., Ltd.	PRC	September 1, 2010	September 1, 2020
Hoist- and disorderly rope-proof device, and hoist and crane with the same (防卷揚亂繩裝置、包括該裝置的卷揚及起重機)	201020517586.6	Utility patent	Sany Automobile Hoisting Machinery Co., Ltd.	PRC	September 6, 2010	September 6, 2020

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Piling machine gantry and piling machine with the same (堆高機門架和具有該門架的堆高機)	201020519198.1	Utility patent	Sany Automobile Hoisting Machinery Co., Ltd.	PRC	September 7, 2010	September 7, 2020
Road roller and monitoring system thereof (壓路機及其監控系統)	201020526084.X	Utility patent	our Company	PRC	September 13, 2010	September 13, 2020
Mixing component and mixer with the same (攪拌組件及包括其的攪拌機)	201020526082.0	Utility patent	our Company	PRC	September 13, 2010	September 13, 2020
Magnetic filtering device and equipment with the same (磁性過濾裝置及包含其的設備)	201020547202.5	Utility patent	our Company	PRC	September 29, 2010	September 29, 2020
Single-cylinder telescopic jib and crane with the same (單缸伸縮臂及具有該單缸伸縮臂的起重機)	201020560191.4	Utility patent	Sany Automobile Hoisting Machinery Co., Ltd.	PRC	October 13, 2010	October 13, 2020
Paver engine speed control system and paver with the same (攤鋪機發動機轉速控制系統及其攤鋪機)	201020553094.2	Utility patent	our Company	PRC	September 30, 2010	September 30, 2020
Crane height limiting system (起重機高度限位系統)	201020578996.1	Utility patent	Sany Automobile Hoisting Machinery Co., Ltd.	PRC	October 26, 2010	October 26, 2020
Automobile rear fog lamp control circuit (汽車後霧燈控制電路)	201020233782.0	Utility patent	Sany Automobile Hoisting Machinery Co., Ltd.	PRC	June 23, 2010	June 23, 2020
A type of measuring hopper leveling device and measuring hopper (一種計量斗調平裝置和計量斗)	201020194213.X	Utility patent	our Company	PRC	May 19, 2010	May 19, 2020
A type of abnormal-shaped door connection structure and vehicle with the same (一種異形門的連接結構和具有該結構的車輛)	201020208652.1	Utility patent	our Company	PRC	May 31, 2010	May 31, 2020

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
A type of air-conditioner compressor installation device and engineering machinery (一種空調壓縮機的安裝裝置和工程機械)	201020213727.5	Utility patent	our Company	PRC	June 3, 2010	June 3, 2020
Heat radiating device and grader with automatic rubbish cleaning function (可自動清理雜物的散熱裝置及平地機)	201020192483.7	Utility patent	our Company	PRC	May 17, 2010	May 17, 2020
Double-horizontal-shaft forced type mixer driving device and double-horizontal-shaft forced type mixer (雙臥軸強制式攪拌機的驅動裝置及雙臥軸強制式攪拌機)	201020195338.4	Utility patent	our Company	PRC	May 19, 2010	May 19, 2020
Vehicle fuel cooling system (車輛用燃油冷卻系統)	201020198263.5	Utility patent	our Company	PRC	May 21, 2010	May 21, 2020
Engineering machinery time-sharing integrated lubricating device (工程機械用分時集成潤滑裝置)	201020198456.0	Utility patent	our Company	PRC	May 21, 2010	May 21, 2020
Mixing device for double-horizontal-shaft concrete mixer and double-horizontal-shaft mixer (用於雙臥軸混凝土攪拌機的攪拌裝置及雙臥軸攪拌機)	201020199017.1	Utility patent	our Company	PRC	May 21, 2010	May 21, 2020
Vehicle parking brake system (車輛用駐車制動系統)	201020200730.3	Utility patent	our Company	PRC	May 24, 2010	May 24, 2020
A type of side mixing blade and double-horizontal-shaft mixer with the same (一種側攪拌葉片組件及其雙臥軸攪拌機)	201020200830.6	Utility patent	our Company	PRC	May 24, 2010	May 24, 2020
Paver reversing control device (攤鋪機換向控制裝置)	201020201659.0	Utility patent	our Company	PRC	May 25, 2010	May 25, 2020
Folding ladder for mortar vehicle and mortar vehicle with the same (砂漿車用折疊梯及其砂漿車)	201020194863.4	Utility patent	our Company	PRC	May 19, 2010	May 19, 2020
Water measuring hopper for concrete batching plant (混凝土攪拌站用水計量斗)	201020208296.3	Utility patent	our Company	PRC	May 31, 2010	May 31, 2020

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Mortar transfer device (砂漿轉運裝置)	201020212249.6	Utility patent	our Company	PRC	June 2, 2010	June 2, 2020
Grader front axle single-wheel driving locking component (平地機用前橋單輪行駛鎖止組 件)	201020218401.1	Utility patent	our Company	PRC	June 8, 2010	June 8, 2020
Tensile flexible pipe (抗拉軟管)	201020224161.6	Utility patent	our Company	PRC	June 12, 2010	June 12, 2020
Gasoline tank speedy oil sealing device (油箱快速封油裝置)	201020224309.6	Utility patent	our Company	PRC	June 12, 2010	June 12, 2020
A type of supporting leg locking device and concrete pump (一種支腿鎖止裝置及混凝土泵 車)	201020229007.8	Utility patent	our Company	PRC	June 18, 2010	June 18, 2020
Powder dust removal device (粉料除塵裝置)	201020230952.X	Utility patent	our Company	PRC	June 21, 2010	June 21, 2020
Self-travelling hydraulic chassis for mortar equipment and mortar vehicle (用於砂漿設備的自行走液壓底 盤及砂漿車)	201020261428.9	Utility patent	our Company	PRC	July 16, 2010	July 16, 2020
Self-travelling hydraulic chassis shock-absorbing device for mortar equipment and self-travelling shock-absorbing chassis (砂漿設備用自行走底盤的減震 裝置及自行走減震底盤)	201020261372.7	Utility patent	our Company	PRC	July 16, 2010	July 16, 2020
Self-travelling chassis with adjustable wheel track for mortar equipment and mortar vehicle (砂漿設備用輪距可調的自行走 底盤及砂漿車)	201020261371.2	Utility patent	our Company	PRC	July 16, 2010	July 16, 2020
A type of obstacle surmounting mechanism for mortar vehicle (一種砂漿車用可越障機構)	201020261340.7	Utility patent	our Company	PRC	July 16, 2010	July 16, 2020
Self-travelling chassis with adjustable wheel track for mortar equipment and mortar vehicle (砂漿設備用可調輪距的自行走 底盤及砂漿車)	201020261337.5	Utility patent	our Company	PRC	July 16, 2010	July 16, 2020

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Self-travelling chassis for mortar truck and mortar vehicle with the same (砂漿車用自行走底盤及其砂漿車)	201020261182.5	Utility patent	our Company	PRC	July 16, 2010	July 16, 2020
Self-travelling chassis for mortar equipment and mortar vehicle (用於砂漿設備的自行走底盤及砂漿車)	201020261109.8	Utility patent	our Company	PRC	July 16, 2010	July 16, 2020
Automatic steering cross-track mortar vehicle chassis and mortar vehicle (可自動轉向的跨軌道砂漿車底盤及砂漿車)	201020261159.6	Utility patent	our Company	PRC	July 16, 2010	July 16, 2020
用於工程車輛的升降梯Lift for engineering vehicles	201020237859.1	Utility patent	our Company	PRC	June 25, 2010	June 25, 2020
A type of hydraulic cylinder, hydraulic buffering system, excavator and concrete pump (一種液壓油缸及液壓緩衝系統、挖掘機和混凝土泵車)	201020269245.1	Utility patent	our Company	PRC	July 23, 2010	July 23, 2020
A type of hydraulic cylinder, hydraulic buffering system, excavator and concrete pump (一種液壓油缸及液壓緩衝系統、挖掘機和混凝土泵車)	201020269246.6	Utility patent	our Company	PRC	July 23, 2010	July 23, 2020
A type of hydraulic cylinder, hydraulic buffering system, excavator and concrete pump (一種液壓油缸及液壓緩衝系統、挖掘機和混凝土泵車)	201020269243.2	Utility patent	our Company	PRC	July 23, 2010	July 23, 2020
Concrete mixer frame and concrete mixer (混凝土攪拌車車架及混凝土攪拌車)	201020274339.8	Utility patent	our Company	PRC	July 29, 2010	July 29, 2020
Conveying pipe supporting device and concrete machinery with the same (輸送管支撐裝置及具有該輸送管支撐裝置的混凝土機械)	201020274340.0	Utility patent	our Company	PRC	July 29, 2010	July 29, 2020
Wheelspin locking device for engineering machinery (用於工程機械的滑轉鎖止裝置)	201020285093.4	Utility patent	our Company	PRC	August 6, 2010	August 6, 2020

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Engineering machinery supporting leg lock and engineering machinery with the same (工程機械支腿鎖以及具有該支腿鎖的工程機械)	201020294297.4	Utility patent	our Company	PRC	August 17, 2010	August 17, 2020
Conveying pipe positioning and buffering device and concrete pump (輸送管定位緩衝裝置及混凝土泵車)	201020296740.1	Utility patent	our Company	PRC	August 19, 2010	August 19, 2020
Adjustable supporting foot plate (可調支腳盤)	201020513013.6	Utility patent	Sany Automobile Hoisting Machinery Co., Ltd.	PRC	September 1, 2010	September 1, 2020
Protection device for preventing over oil returning pressure for system casing (防止系統殼體回油壓力過高的保護裝置)	201020515656.4	Utility patent	our Company	PRC	September 3, 2010	September 3, 2020
Paver mangle cylinder tightening control device and paver (攤鋪機熨平板拉緊油缸的控制裝置及攤鋪機)	201020519701.3	Utility patent	our Company	PRC	September 7, 2010	September 7, 2020
Hydraulic cylinder, hydraulic system and reciprocating mechanism with buffering function (具有緩衝功能的液壓油缸、液壓系統及往復式驅動機構)	201020536274.X	Utility patent	our Company	PRC	September 20, 2010	September 20, 2020
Telescopic unloading device for mortar vehicle and mortar vehicle with the same (砂漿車用伸縮出料裝置及其砂漿車)	201020545849.4	Utility patent	our Company	PRC	September 28, 2010	September 28, 2020
Direct current motor protector and glass lifting device (直流電機保護器及玻璃升降裝置)	201020545840.3	Utility patent	our Company	PRC	September 28, 2010	September 28, 2020
Hydraulic driving device for engineering machinery (用於工程機械的液壓驅動裝置)	201020552556.9	Utility patent	our Company	PRC	October 8, 2010	October 8, 2020

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Self-adaptive hydraulic driving device for engineering machinery (用於工程機械的自適應液壓驅動裝置)	201020553138.1	Utility patent	our Company	PRC	October 9, 2010	October 9, 2020
Plunge pump based on linked control valve (基於聯動控制閥的柱塞式水泵)	201020555985.1	Utility patent	our Company	PRC	October 11, 2010	October 11, 2020
Plunge pump with always-open style suction valve (吸水閥常開式柱塞式水泵)	201020556010.0	Utility patent	our Company	PRC	October 11, 2010	October 11, 2020
Powder tank full storage protection device and powder tank (粉料罐滿倉保護裝置及粉料罐)	201020557831.6	Utility patent	our Company	PRC	October 12, 2010	October 12, 2020
Measuring device with strong anti-interference capability (具有高效抗幹擾能力的測量裝置)	201020559645.6	Utility patent	our Company	PRC	October 13, 2010	October 13, 2020
Hydraulic tightening device for paver mangle and paver with the same (用於攤鋪機熨平板的液壓張緊裝置及其攤鋪機)	201020564443.0	Utility patent	our Company	PRC	October 18, 2010	October 18, 2020
Crawler conveying device control system and crawler conveying device (用於皮帶輸送裝置的控制系統及皮帶輸送裝置)	201020579064.9	Utility patent	our Company	PRC	October 27, 2010	October 27, 2020
Mixer pneumatic mechanism and concrete mixer with the same (攪拌車氣動操縱機構及其混凝土攪拌車)	201020595733.1	Utility patent	our Company	PRC	November 8, 2010	November 8, 2020
Wheel rim with heat radiating function, and wheel and vehicle with the same (具備散熱功能的輪輞、具有該輪輞的車輪及車輛)	201020599244.3	Utility patent	our Company	PRC	November 10, 2010	November 10, 2020
Engineering machinery engine speed control device (工程機械的發動機轉速控制裝置)	201020599251.3	Utility patent	our Company	PRC	November 10, 2010	November 10, 2020
Vehicle supporting legs (車輛用支腿)	201020610857.2	Utility patent	our Company	PRC	November 17, 2010	November 17, 2020

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Direct-connection concrete piston head and concrete pump with the same (直聯式砼活塞頭及使用該活塞頭的混凝土泵)	201020617736.0	Utility patent	our Company	PRC	November 22, 2010	November 22, 2020
Vehicle rear wheel driving device and tired road roller (車輛後輪驅動裝置和輪胎壓路機)	201020170055.4	Utility patent	Our Company	PRC	2010-4-26	2020-4-26
Rotary table device of rotary drilling rig (旋挖鑽機轉盤裝置)	201020550155.X	Utility patent	Beijing Sany Heavy Machinery	PRC	2010-9-30	2020-9-30
Hydraulic driving system for manned lifting platform (載人升降平臺液壓驅動系統)	201020575913.3	Utility patent	Beijing Sany Heavy Machinery	PRC	2010-10-25	2020-10-25
Grappling bucket pulley mechanism for sequential wall (連續牆抓斗滑輪機構)	201020575904.4	Utility patent	Beijing Sany Heavy Machinery	PRC	2010-10-25	2020-10-25
Grappling bucket pipe winding device for sequential wall (連續牆抓斗卷管器)	201020575921.8	Utility patent	Beijing Sany Heavy Machinery	PRC	2010-10-25	2020-10-25
Concrete conveyer bucket and truck-mounted concrete pump with the same (混凝土輸送料斗及包括該料斗的混凝土泵車)	201020619266.1	Utility patent	Our Company	PRC	2010-11-22	2020-11-22
Concrete mixer and stirring drum thereof (混凝土攪拌車及其攪拌筒)	201020636523.2	Utility patent	Our Company	PRC	2010-12-1	2020-12-1
Engineering vehicle and chassis thereof (工程車輛及其底盤)	201020639316.2	Utility patent	Our Company	PRC	2010-12-2	2020-12-2
Truck-mounted concrete pump and pumping system thereof (混凝土泵車及其泵送系統)	201020639455.5	Utility patent	Our Company	PRC	2010-12-2	2020-12-2
Engineering machinery and bus control system thereof (工程機械及其總綫控制系統)	201020664813.8	Utility patent	Our Company	PRC	2010-12-16	2020-12-16
A type of power generation equipment with double generator (一種雙發電機的發電設備)	201020664552.X	Utility patent	Our Company	PRC	2010-12-16	2020-12-16
A type of cutting ring and concrete pumping equipment (一種切割環及混凝土泵送設備)	201020666958.1	Utility patent	Our Company	PRC	2010-12-17	2020-12-17

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
A type of mobile engineering machinery and control system for support leg thereof (一種移動式工程機械及其支腿的控制系統)	201020687139.5	Utility patent	Our Company	PRC	2010-12-28	2020-12-28
Mixer (攪拌車)	033424225	Design patent	Our Company	PRC	2003-7-15	2013-7-15
Trailer pump strong electrical cabinet (托泵強電櫃)	201030120501.6	Design patent	our Company	PRC	March 17, 2010	March 17, 2020
Trailer pump weak electrical cabinet (托泵弱電櫃)	201030120502.0	Design patent	our Company	PRC	March 17, 2010	March 17, 2020
Grader (平地機)	201030302960.6	Design patent	our Company	PRC	February 3, 2010	February 3, 2020
Operation console (操縱台)	201030302961.0	Design patent	our Company	PRC	February 3, 2010	February 3, 2020
Counterweight (配重)	200930330605.7	Design patent	Sany Automobile Manufacturing	PRC	December 23, 2009	December 23, 2019
Road roller (壓路機)	200930322640.4	Design patent	our Company	PRC	November 2, 2009	November 2, 2019
Industrial display (1) (工業顯示屏(一))	201030210253.4	Design patent	our Company	PRC	June 22, 2010	June 22, 2020
Industrial display screen (2) (工業顯示屏(二))	201030210252.X	Design patent	our Company	PRC	June 22, 2010	June 22, 2020
Crane (起重機)	201030241739.4	Design patent	our Company	PRC	July 19, 2010	July 19, 2020
Mortar vehicle chassis (砂漿車用底盤)	201030240451.5	Design patent	our Company	PRC	July 16, 2010	July 16, 2020
Mortar equipment (砂漿設備)	201030240420.x	Design patent	our Company	PRC	July 16, 2010	July 16, 2020
Engineering vehicle plate edge boarding (工程車輛走台板邊沿圍板)	201030216650.2	Design patent	Sany Automobile Hoisting Machinery Co., Ltd.	PRC	June 25, 2010	June 25, 2020
Excavator (挖掘機)	201030218591.2	Design patent	our Company	PRC	June 28, 2010	June 28, 2020
Intake port (進氣道)	201030218585.7	Design patent	our Company	PRC	June 28, 2010	June 28, 2020
Data collector (數據採集器)	201030218584.2	Design patent	our Company	PRC	June 28, 2010	June 28, 2020

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Gear protector (齒輪防護件)	201030505822.8	Design patent	our Company	PRC	September 7, 2010	September 7, 2020
Mixer (攪拌車)	201030539060.3	Design patent	our Company	PRC	September 29, 2010	September 29, 2020
Asphalt mixing equipment main building (瀝青混合料攪拌設備攪拌主樓)	201030576938.0	Design patent	our Company	PRC	October 27, 2010	October 27, 2020
Driver's cab (駕駛室)	201030594193.0	Design patent	our Company	PRC	November 4, 2010	November 4, 2020
Bumper (保險杠)	201030594205.X	Design patent	our Company	PRC	November 4, 2010	November 4, 2020
Driver's cab door (駕駛室車門)	201030594212.X	Design patent	our Company	PRC	November 4, 2010	November 4, 2020
Grillage panel (格柵面板)	201030594228.0	Design patent	our Company	PRC	November 4, 2010	November 4, 2020
Grillage left (right) upper decorative plate (格柵左(右)上裝飾板)	201030594240.1	Design patent	our Company	PRC	November 4, 2010	November 4, 2020
Side wall lower decorative plate (側圍下飾板)	201030594244.X	Design patent	our Company	PRC	November 4, 2010	November 4, 2020
Driver's cab corner plate (駕駛室拐角板)	201030594252.4	Design patent	our Company	PRC	November 4, 2010	November 4, 2020
Automobile instrument desk (汽車儀錶台)	201030594266.6	Design patent	our Company	PRC	November 4, 2010	November 4, 2020
Automobile steering wheel (汽車方向盤)	201030594269.X	Design patent	our Company	PRC	November 4, 2010	November 4, 2020
Headlight decorative casing (前大燈裝飾罩殼體)	201030594274.0	Design patent	our Company	PRC	November 4, 2010	November 4, 2020
Car door inner decorative plate (車門內飾板)	201030594294.8	Design patent	our Company	PRC	November 4, 2010	November 4, 2020
Driver's cab (駕駛室)	201030601940.9	Design patent	our Company	PRC	November 9, 2010	November 9, 2020
Small operation box with protection casing (帶防護罩的小操作盒)	201030629397.3	Design patent	our Company	PRC	November 23, 2010	November 23, 2020
Remote controller (遙控器)	201030648074.9	Design patent	our Company	PRC	December 1, 2010	December 1, 2020
Double steel-wheeled road roller (雙鋼輪壓路機)	201030650213.1	Design patent	our Company	PRC	December 2, 2010	December 2, 2020
Crane (起重機)	201030653627.X	Design patent	our Company	PRC	December 3, 2010	December 3, 2020
Driver's cab (駕駛室)	201030663952.4	Design patent	our Company	PRC	December 8, 2010	December 8, 2020

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Mortar equipment (砂漿設備)	201030639185.3	Design patent	our Company	PRC	July 16, 2010	July 16, 2020
A type of hoist motor closed type hydraulic system for preventing pipelines from bursting and control method thereof (一種防管路爆裂的卷揚馬達閉式液壓系統及其控制方法)	200910049726.3	Invention patent	Shanghai Sany Technology	PRC	April 21, 2009	April 21, 2029
Tri-loop protector for hoist (卷揚三圈保護裝置)	200920210987.4	Utility patent	Kunshan Sany Machinery	PRC	October 20, 2009	October 20, 2019
Crane engine energy-saving control device (起重機發動機節能控制裝置)	200920213033.9	Utility patent	Kunshan Sany Machinery	PRC	December 14, 2009	December 14, 2019
A type of variable-length waist rope device for crawler crane (一種履帶起重機可變長度的腰繩裝置)	200920069012.4	Utility patent	Kunshan Sany Machinery	PRC	March 18, 2009	March 18, 2019
Tri-loop protector for hoist (卷揚三圈保護裝置)	200920069920.3	Utility patent	Kunshan Sany Machinery	PRC	April 3, 2009	April 3, 2019
A type of new crawler frame side-shift preventer (一種新型防履帶架側移裝置)	200920075399.4	Utility patent	Kunshan Sany Machinery	PRC	July 28, 2009	July 28, 2019
A type of turning locking device (一種回轉鎖定裝置)	200920077990.3	Utility patent	Kunshan Sany Machinery	PRC	July 8, 2009	July 8, 2019
Lifting hook and rope stopping frame thereof (起重鉤的擋繩架及起重鉤)	200920207832.5	Utility patent	Kunshan Sany Machinery	PRC	August 13, 2009	August 13, 2019
A type of dragline winding device for crane (一種起重機拉鏟卷揚裝置)	200920209514.2	Utility patent	Kunshan Sany Machinery	PRC	September 10, 2009	September 10, 2019
Device for clearing gap between crane base beam and crawler jib (消除起重機底座梁與履帶架聯接間隙的裝置)	201020150607.5	Utility patent	Shanghai Sany Technology	PRC	April 6, 2010	April 6, 2020
A series of speed reducer debugging and testing device (一種系列減速機調試測試裝置)	201020184603.9	Utility patent	Kunshan Sany Machinery	PRC	May 6, 2010	May 6, 2020
A new-type anti-wearing device for track plate (一種新型防履帶板磨損裝置)	201020221578.7	Utility patent	Shanghai Sany Technology	PRC	June 9, 2010	June 9, 2020
A type of crane power pin structure (一種起重機用動力銷結構)	201020514635.0	Utility patent	Shanghai Sany Technology	PRC	September 2, 2010	September 2, 2020

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
A new-type adjustable folding fastener (一種新型可調折疊緊固件)	201020237210.X	Utility patent	Shanghai Sany Technology	PRC	June 24, 2010	June 24, 2020
Upper-hanging, lower-pin self-balancing central counterweight downloading base supporting leg thereof (上掛下銷自調整一體式中央配重及相配的下車底座支腿)	201020514652.4	Utility patent	Shanghai Sany Technology	PRC	September 2, 2010	September 2, 2020
Lifting hook with triple-side rope stopping frame structure (三面擋繩架結構的起重鉤)	201020265506.2	Utility patent	Shanghai Sany Technology	PRC	July 21, 2010	July 21, 2020
A type of crawler crane concrete weight block (一種履帶起重機混凝土配重塊)	201020270458.6	Utility patent	Shanghai Sany Technology	PRC	July 26, 2010	July 26, 2020
A type of crane rear counterweight device (一種起重機後配重裝置)	201020270459.0	Utility patent	Shanghai Sany Technology	PRC	July 26, 2010	July 26, 2020
Crane cylinder infilling aided guiding connection bar device (起重機油缸入槽輔助導向連杆裝置)	201020514634.6	Utility patent	Kunshan Sany Machinery	PRC	September 2, 2010	September 2, 2020
a new-type welding drawing plate structure (一種焊接拉板結構)	201020514632.7	Utility patent	Shanghai Sany Technology	PRC	September 2, 2010	September 2, 2020
A type of crane coding installation device (一種起重機編碼器安裝裝置)	201020294285.1	Utility patent	Shanghai Sany Technology	PRC	August 17, 2010	August 17, 2020
A type of load moment limiter with load table inquiry function (一種帶載荷表查詢功能的力矩限制器)	201020555420.3	Utility patent	Shanghai Sany Technology	PRC	October 11, 2010	October 11, 2020
A type of positioning beam for lifting hook (一種起重鉤用起定位作用的橫梁)	201020519770.4	Utility patent	Shanghai Sany Technology	PRC	September 7, 2010	September 7, 2020
A type of clamping bracket structure for crane jib (一種起重機臂架用裝夾式托架結構)	201020519735.2	Utility patent	Shanghai Sany Technology	PRC	September 7, 2010	September 7, 2020
A type of heavy crawler crane climbing test bed (一種重型履帶起重機爬坡試驗台)	201020514653.9	Utility patent	Shanghai Sany Technology	PRC	September 2, 2010	September 2, 2020

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
A type of rust-proof heat radiating hydraulic gasoline tank (一種防銹散熱液壓油箱)	201020583153.0	Utility patent	Shanghai Sany Technology	PRC	October 29, 2010	October 29, 2020
Crawler crane jib side adjustment system (履帶起重機臂架側向調整系統)	201020547532.4	Utility patent	Shanghai Sany Technology	PRC	September 29, 2010	September 29, 2020
A type of movable drawing plate bracket (一種活動式拉板支架)	201020581003.6	Utility patent	Shanghai Sany Technology	PRC	October 28, 2010	October 28, 2020
A type of crane coder installation device (一種起重機編碼器安裝裝置)	201020610853.4	Utility patent	Kunshan Sany Machinery	PRC	November 17, 2010	November 17, 2020
Low tonnage crane built-in load moment limiter (小噸位履帶起重機集成式力矩限制器)	201020610912.8	Utility patent	Shanghai Sany Technology	PRC	November 17, 2010	November 17, 2020
A new-type back tipping prevention device for main crane jib (一種新型起重機主臂防後傾裝置)	201020611080.1	Utility patent	Shanghai Sany Technology	PRC	November 17, 2010	November 17, 2020
A type of built-in scavenge filter (一種內置型油過濾器)	201020599623.2	Utility patent	Shanghai Sany Technology	PRC	November 9, 2010	November 9, 2020
A type of enhanced A-shaped rack device (一種加強型A形架裝置)	201020599963.5	Utility patent	Shanghai Sany Technology	PRC	November 9, 2010	November 9, 2020
A type of rammer rotary platform buffering device (一種強夯機回轉平台緩衝裝置)	201020610860.4	Utility patent	Shanghai Sany Technology	PRC	November 17, 2010	November 17, 2020
Crawler crane rotary angle testing machine (履帶起重機回轉角度檢測裝置)	201020610852.X	Utility patent	Shanghai Sany Technology	PRC	November 17, 2010	November 17, 2020
A type of core structure with built-in engine connecting pipe (一種集成發動機外接管道的主機結構件)	201020668754.1	Utility patent	Kunshan Sany Machinery	PRC	December 20, 2010	December 20, 2020
A type of crawler crane core rear counterweight self-loading and unloading device (一種履帶起重機主機後配重自裝卸裝置)	201020610895.8	Utility patent	Kunshan Sany Machinery	PRC	November 17, 2010	November 17, 2020
A type of jib back tipping prevention system (一種臂架防後傾系統)	201020606292.0	Utility patent	Kunshan Sany Machinery	PRC	November 15, 2010	November 15, 2020

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
A type of hydraulic controller for concrete injection machinery and concrete injection robot (一種混凝土噴射機械液壓控制裝置及混凝土噴射機器人)	200810182906.4	Invention patent	our Company	PRC	December 5, 2008	December 5, 2028
Agglomerates-in-agitator-tank volume test method, system, device and truck-mounted mixer (攪拌罐內聚結物的方量檢測方法、系統、裝置及攪拌車)	200910176216.2	Invention patent	our Company	PRC	September 16, 2009	September 16, 2029
Noise reducing room (降噪室)	200910168393.6	Invention patent	our Company	PRC	September 2, 2009	September 2, 2029
A type of truck-mounted pump and boom thereof (一種混凝土泵車及其臂架裝置)	201010111843.0	Invention patent	our Company	PRC	February 5, 2010	February 5, 2030
A type of fault diagnostic apparatus and method for electric control circuit (一種電氣控制電路的故障診斷裝置及方法)	200810188261.5	Invention patent	our Company	PRC	December 22, 2008	December 22, 2028
A type of construction machinery (一種施工機械)	200810188806.2	Invention patent	our Company	PRC	December 26, 2008	December 26, 2028
A type of crane lifting speed control device (一種起重機起吊速度控制裝置)	200810185715.3	Invention patent	our Company	PRC	December 8, 2008	December 8, 2028
Engineering vehicle arm rest controller, control system, engineering vehicle and control method (工程車輛臂架控制器、控制系統、工程車輛、及控制方法)	200910158819.X	Invention patent	our Company	PRC	July 6, 2009	July 6, 2029
A type of adding apparatus and additive chamber for liquid additive (一種液體外加劑添加裝置及外加劑房)	200810177598.6	Invention patent	our Company	PRC	November 25, 2008	November 25, 2028
A type of heating and drying roller (一種加熱烘乾滾筒)	200810173080.5	Invention patent	our Company	PRC	November 26, 2008	November 26, 2028
A type of tilt angle sensor and tilt angle control system (一種傾角傳感器及傾角控制系統)	200910158817.0	Invention patent	our Company	PRC	July 6, 2009	July 6, 2029

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Track tensioning device, track type engineering machinery and method for adjusting track tensioning force (履帶張緊裝置、履帶式工程機械及調整履帶張緊力的方法)	200910139744.0	Invention patent	our Company	PRC	June 30, 2009	June 30, 2029
Method for acquiring characteristic parameters of displacement control mechanism of hydraulic pump and detection device (獲取液壓泵的排量控制機構特性參數的方法和檢測裝置)	200910158808.1	Invention patent	our Company	PRC	July 6, 2009	July 6, 2029
Concrete pumping equipment and piston body thereof (混凝土泵送設備及其活塞體)	200910157897.8	Invention patent	our Company	PRC	July 10, 2009	July 10, 2029
A type of excavator revolving-control method and system (一種挖掘機回轉控制方法和系統)	200710022776.3	Invention patent	Sany Heavy Machinery	PRC	May 29, 2007	May 29, 2027
A type of control method for improving smoothening capability of excavator (一種改善挖掘機平地性能的控制方法)	200910025198.8	Invention patent	Sany Heavy Machinery	PRC	February 23, 2009	February 23, 2029
Rotary logical valve for protecting rotary motor (一種保護回轉馬達的回轉邏輯閥)	200910025197.3	Invention patent	Sany Heavy Machinery	PRC	February 23, 2009	February 23, 2029
Centrifugal filter (離心式濾清器)	200910232946.X	Invention patent	Sany Heavy Machinery	PRC	September 22, 2009	September 22, 2029
Converting apparatus between multi-protocols (多協議之間的轉換設備)	201020230885.1	Utility patent	Sany Heavy Machinery	PRC	June 21, 2010	June 21, 2020
A type of multi-functional display and control system used for excavators (一種用於挖掘機的多功能顯控系统)	201020547298.5	Utility patent	Sany Heavy Machinery	PRC	September 29, 2010	September 29, 2020
A type of hydraulic Cylinder equipped with oil returning system (一種帶回油系統的液壓油缸)	201020537453.5	Utility patent	Sany Heavy Machinery	PRC	September 21, 2010	September 21, 2020

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
A type of oil returning device used for engineering machinery (一種用於工程機械的回油裝置)	201020558465.6	Utility patent	Sany Heavy Machinery	PRC	October 13, 2010	October 13, 2020
Hydraulic circuit structure used to connect excavator hydraulic cylinder (用於連接挖掘機液壓油缸的油路結構)	201020564392.1	Utility patent	Sany Heavy Machinery	PRC	October 18, 2010	October 18, 2020
Fault diagnostic system for excavator (挖掘機故障診斷系統)	201020579913.0	Utility patent	Sany Heavy Machinery	PRC	October 28, 2010	October 28, 2020
A type of protective screen structure used for engineering machinery heat radiator (一種工程機械的散熱器用防護網結構)	201020579901.8	Utility patent	Sany Heavy Machinery	PRC	October 28, 2010	October 28, 2020
A type of hydraulic system oil temperature cooling device used for excavator (一種用於挖掘機的液壓系統油溫冷卻裝置)	201020613892.X	Utility patent	Sany Heavy Machinery	PRC	November 19, 2010	November 19, 2020
A type of respiratory valve (一種呼吸閥)	201020620176.4	Utility patent	Sany Heavy Machinery	PRC	November 23, 2010	November 23, 2020
Battery erecting structure used on excavator (用於挖掘機上的電瓶安裝結構)	201020643667.0	Utility patent	Sany Heavy Machinery	PRC	December 6, 2010	December 6, 2020
A type of non-return valve (一種單向閥)	201020645830.7	Utility patent	Sany Heavy Machinery	PRC	December 7, 2010	December 7, 2020
Display screen (SECD-8I) (顯示屏 (SECD-8I))	201030298656.9	Design patent	Sany Heavy Machinery	PRC	September 2, 2010	September 2, 2020
Excavator counterweight (挖掘機配重)	201030578458.8	Design patent	Sany Heavy Machinery	PRC	October 28, 2010	October 28, 2020
Small electrical excavator decal (1) (電動小挖貼花(1))	201030629920.2	Design patent	Sany Heavy Machinery	PRC	November 23, 2010	November 23, 2020
Small electrical excavator decal (3) (電動小挖貼花(3))	201030629917.0	Design patent	Sany Heavy Machinery	PRC	November 23, 2010	November 23, 2020
Small electrical excavator decal (4) (電動小挖貼花(4))	201030629916.6	Design patent	Sany Heavy Machinery	PRC	November 23, 2010	November 23, 2020
Battery case (電瓶箱)	201030629909.6	Design patent	Sany Heavy Machinery	PRC	November 23, 2010	November 23, 2020

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Double-layer barrel type drilling tool (雙層筒式鑽具)	200810118803.1	Invention patent	Beijing Sany Heavy Machinery	PRC	August 22, 2008	August 22, 2028
Advance reinforcing size-sealing device and size-sealer thereof (超前加固封漿裝置封漿器及超前加固封漿裝置)	200810223054.9	Invention patent	Beijing Sany Heavy Machinery	PRC	September 26, 2008	September 26, 2028
Counterweight self-handling device for engineering machinery and rotary drilling rig comprising same (工程機械用配重自裝卸裝置及包括該裝置的旋挖鑽機)	200910085863.2	Invention patent	Beijing Sany Heavy Machinery	PRC	June 3, 2009	June 3, 2029
Pile machine (樁機)	200910090151.X	Invention patent	Beijing Sany Heavy Machinery	PRC	July 29, 2009	July 29, 2029
Rotary drilling rig and drilling bucket dropping prevention device thereof (旋挖鑽機及其防鑽斗脫落裝置)	201020512981.5	Utility patent	Beijing Sany Heavy Machinery	PRC	August 31, 2010	August 31, 2020
A type of multi-purpose rotary drilling rig (一種多功能旋挖鑽機)	201020554764.2	Utility patent	Beijing Sany Heavy Machinery	PRC	September 30, 2010	September 30, 2020
A type of helix drilling rig (一種螺旋鑽機)	201020605511.3	Utility patent	Beijing Sany Heavy Machinery	PRC	November 12, 2010	November 12, 2020
Rotary drilling rig and mast bracket thereof (旋挖鑽機及其桅杆座)	201020613809.9	Utility patent	Beijing Sany Heavy Machinery	PRC	November 18, 2010	November 18, 2020
A type of engineering machinery and mast bracket thereof (一種工程機械及其桅杆座)	201020613807.X	Utility patent	Beijing Sany Heavy Machinery	PRC	November 18, 2010	November 18, 2020
A type of rotary drilling rig and drilling rod lifting device thereof (一種旋挖鑽機及其鑽杆提引裝置)	201020622597.0	Utility patent	Beijing Sany Heavy Machinery	PRC	November 23, 2010	November 23, 2020
Crawler type engineering machinery and crawler type supporting device thereof (履帶式工程機械及其履帶式支承裝置)	201020622550.4	Utility patent	Beijing Sany Heavy Machinery	PRC	November 23, 2010	November 23, 2020

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Helix percussion drill bit and engineering machinery with the same (螺旋衝擊鑽頭及包括該鑽頭的工程機械)	201020635561.6	Utility patent	Beijing Sany Heavy Machinery	PRC	November 30, 2010	November 30, 2020
A type of rotary drilling rig and power box with the same (一種旋挖鑽機及其動力箱)	201020657097.0	Utility patent	Beijing Sany Heavy Machinery	PRC	December 13, 2010	December 13, 2020
A type of rope stopping pipe installation device (一種擋繩管安裝裝置)	201020611046.4	Utility patent	Kunshan Sany Machinery	PRC	November 17, 2010	November 17, 2020
A type of highly safe ladder for jib (一種臂架用高安全性的爬梯)	201020611001.7	Utility patent	Kunshan Sany Machinery	PRC	November 17, 2010	November 17, 2020
A type of jib with steel roller (一種帶鋼絲繩托輥的臂架)	201020611000.2	Utility patent	Kunshan Sany Machinery	PRC	November 17, 2010	November 17, 2020
A type of pin roll with easy installation and dismantling (一種易安裝拆卸的銷軸)	201020611045.X	Utility patent	Kunshan Sany Machinery	PRC	November 17, 2010	November 17, 2020
A type of positioning device for crawler crane crawler-support installation (一種履帶起重機履帶架安裝的定位裝置)	201020668750.3	Utility patent	Kunshan Sany Machinery	PRC	December 20, 2010	December 20, 2020
A type of butterfly damper proximity switch installation device (一種蝶閥接近開關安裝裝置)	201020668756.0	Utility patent	Kunshan Sany Machinery	PRC	December 20, 2010	December 20, 2020
A type of dual-break folding crawler crane lengthened beam (一種雙分折疊式履帶起重機底座加長梁)	201020663297.7	Utility patent	Shanghai Sany Technology	PRC	December 16, 2010	December 16, 2020
Driver's cab for crawler crane (履帶起重機駕駛室)	200930093460.3	Design patent	Kunshan Sany Machinery	PRC	January 22, 2009	January 22, 2019
Crawler crane (履帶起重機)	200930100140.6	Design patent	Kunshan Sany Machinery	PRC	July 28, 2009	July 28, 2019
Crawler crane hood (履帶起重機機罩) (II)	200930228738.3	Design patent	Kunshan Sany Machinery	PRC	October 15, 2009	October 15, 2019
Crawler crane hood (履帶起重機機罩) (I)	200930228737.9	Design patent	Kunshan Sany Machinery	PRC	October 15, 2009	October 15, 2019
Multi-stage alarming lamp (多級報警指示燈)	200930231098.1	Design patent	Kunshan Sany Machinery	PRC	November 25, 2009	November 25, 2019
Crawler crane hood (履帶起重機機罩)	200930094010.6	Design patent	Shanghai Sany Technology	PRC	February 17, 2009	February 17, 2019

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Powerful crawler crane (強力型履帶起重機)	200930100810.4	Design patent	Shanghai Sany Technology	PRC	August 21, 2009	August 21, 2019
Counter-weight for crawler crane (履帶起重機配重)	200930100809.1	Design patent	Kunshan Sany Machinery	PRC	August 21, 2009	August 21, 2019
Control panel (控制面板)	201030115752.5	Design patent	Shanghai Sany Technology	PRC	March 8, 2010	March 8, 2020
Crawler crane arm rack wire nail (履帶起重機臂架綫卡)	201030171622.3	Design patent	Kunshan Sany Machinery	PRC	May 13, 2010	May 13, 2020
Crawler crane arm rack junction box (履帶起重機臂架接綫盒)	201030171623.8	Design patent	Kunshan Sany Machinery	PRC	May 13, 2010	May 13, 2020
Crane weight block (起重機配重塊)	201030299690.8	Design patent	Shanghai Sany Technology	PRC	September 2, 2010	September 2, 2020
Driver's cab (駕駛室)	201030544881.6	Design patent	Shanghai Sany Technology	PRC	October 9, 2010	October 9, 2020
Driver's cab (駕駛室)	201030544830.3	Design patent	Shanghai Sany Technology	PRC	October 9, 2010	October 9, 2020
Driver's cab (駕駛室)	201030563945.7	Design patent	Shanghai Sany Technology	PRC	October 20, 2010	October 20, 2020
Driver's cab (駕駛室)	201030579892.8	Design patent	Shanghai Sany Technology	PRC	October 28, 2010	October 28, 2020
Driver's cab (駕駛室)	201030579903.2	Design patent	Shanghai Sany Technology	PRC	October 28, 2010	October 28, 2020
Crane counterweight (起重機配重)	201030582716.X	Design patent	Shanghai Sany Technology	PRC	October 29, 2010	October 29, 2020
Crane counterweight (起重機配重)	201030582711.7	Design patent	Shanghai Sany Technology	PRC	October 29, 2010	October 29, 2020
Crane counterweight (起重機配重)	201030582719.3	Design patent	Shanghai Sany Technology	PRC	October 29, 2010	October 29, 2020
Crane counterweight (起重機配重)	201030582712.1	Design patent	Shanghai Sany Technology	PRC	October 29, 2010	October 29, 2020
Crane counterweight (起重機配重)	201030582717.4	Design patent	Shanghai Sany Technology	PRC	October 29, 2010	October 29, 2020
Crane counterweight (起重機配重)	201030582713.6	Design patent	Shanghai Sany Technology	PRC	October 29, 2010	October 29, 2020
Low tonnage crane counterweight (小噸位起重機配重)	201030582720.6	Design patent	Shanghai Sany Technology	PRC	October 29, 2010	October 29, 2020
Low tonnage crane counterweight (小噸位起重機配重)	201030582691.3	Design patent	Shanghai Sany Technology	PRC	October 29, 2010	October 29, 2020
Low tonnage crane counterweight (小噸位起重機配重)	201030582685.8	Design patent	Shanghai Sany Technology	PRC	October 29, 2010	October 29, 2020
Low tonnage crane counterweight (小噸位起重機配重)	201030582670.1	Design patent	Shanghai Sany Technology	PRC	October 29, 2010	October 29, 2020

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Low tonnage crane counterweight (小噸位起重機配重)	201030604838.4	Design patent	Shanghai Sany Technology	PRC	November 10, 2010	November 10, 2020
Low tonnage crane counterweight (小噸位起重機配重)	201030604837.X	Design patent	Shanghai Sany Technology	PRC	November 10, 2010	November 10, 2020
General purpose apparatus controller (通用設備控制器)	201020101971.2	Utility patent	Sany Heavy Machinery	PRC	January 22, 2010	January 22, 2020
A type of hybrid power mechanism for engineering machinery (一種用於工程機械的混合動力機構)	201020173297.9	Utility patent	Sany Heavy Machinery	PRC	April 19, 2010	April 19, 2020
A type of revolving valve core for engineering machinery (一種用於挖掘機的回轉閥芯)	201020184238.1	Utility patent	Sany Heavy Machinery	PRC	April 26, 2010	April 26, 2020
Quick-replacing adjusting pad (快換式調整墊片)	201020184253.6	Utility patent	Sany Heavy Machinery	PRC	April 26, 2010	April 26, 2020
Engineering machinery filtering core (一種用於工程機械的濾芯)	201020184236.2	Utility patent	Sany Heavy Machinery	PRC	April 26, 2010	April 26, 2020
Wireless digital transmission module based on ZigBee communication (基於ZigBee通訊的無線數傳模塊)	201020185412.4	Utility patent	Sany Heavy Machinery	PRC	May 11, 2010	May 11, 2020
Covering device for excavator's elements (挖掘機的元件覆蓋裝置)	201020219698.3	Utility patent	Sany Heavy Machinery	PRC	June 9, 2010	June 9, 2020
A type of oil filling pipe fixing device used in hydraulic excavator tool box (一種用於液壓挖掘機工具箱內的加油管固定裝置)	201020230895.5	Utility patent	Sany Heavy Machinery	PRC	June 21, 2010	June 21, 2020
Fixing binder for electric pipeline (電氣管綫固定扎帶)	201020239848.7	Utility patent	Sany Heavy Machinery	PRC	June 28, 2010	June 28, 2020
A type of fuel oil filter test bed (一種燃油過濾器試驗台)	201020242686.2	Utility patent	Sany Heavy Machinery	PRC	June 29, 2010	June 29, 2020
Heat radiator for hydraulic excavator (液壓挖掘機散熱裝置)	201020277598.6	Utility patent	Sany Heavy Machinery	PRC	July 30, 2010	July 30, 2020
Travelling device used for rotary drilling rig (用於旋挖鑽機的行走裝置)	201020277586.3	Utility patent	Sany Heavy Machinery	PRC	July 30, 2010	July 30, 2020

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
A type of grease bucket placing structure for small-sized excavator (小型挖掘機黃油桶的放置結構)	201020277559.6	Utility patent	Sany Heavy Machinery	PRC	July 30, 2010	July 30, 2020
A type of connection structure for excavator working unit (一種挖掘機工作裝置的連接結構)	201020277613.7	Utility patent	Sany Heavy Machinery	PRC	July 30, 2010	July 30, 2020
A type of frequency inverter (一種變頻器)	201020503489.1	Utility patent	Sany Heavy Machinery	PRC	August 25, 2010	August 25, 2020
Protective structure for travel motor (行走馬達的防護結構)	201020503486.8	Utility patent	Sany Heavy Machinery	PRC	August 25, 2010	August 25, 2020
A type of overflow valve used for excavators (一種挖掘機用溢流閥)	201020503475.X	Utility patent	Sany Heavy Machinery	PRC	August 25, 2010	August 25, 2020
A type of flange structure used for hydraulic members (一種液壓件用法蘭結構)	201020508741.8	Utility patent	Sany Heavy Machinery	PRC	August 30, 2010	August 30, 2020
Bored pile control method, control system and drill using the control system (鑽孔成樁控制方法、控制系統及使用該控制系統的鑽機)	200810225639.4	Invention patent	Beijing Sany Heavy Machinery	PRC	October 31, 2008	October 31, 2028
A type of engineering machinery and its reel pipe device (一種工程機械及其卷管裝置)	200910082575.1	Invention patent	Beijing Sany Heavy Machinery	PRC	April 27, 2009	April 27, 2029
A type of channel iron (一種地規)	200910089960.9	Invention patent	Beijing Sany Heavy Machinery	PRC	July 30, 2009	July 30, 2029
A type of transmission case static balancing apparatus (一種傳動箱靜壓平衡裝置)	200910091687.3	Invention patent	Beijing Sany Heavy Machinery	PRC	August 28, 2009	August 28, 2029
Grab bucket and mud scrapper thereof (抓斗及其刮泥器)	200910235576.5	Invention patent	Beijing Sany Heavy Machinery	PRC	September 29, 2009	September 29, 2029
Swing type deviation rectifying apparatus (擺動式糾偏裝置)	200710177924.9	Invention patent	Beijing Sany Heavy Machinery	PRC	November 22, 2007	November 22, 2027
Self-adjusting guide means (自動調節的導向裝置)	200710177926.8	Invention patent	Beijing Sany Heavy Machinery	PRC	November 22, 2007	November 22, 2027

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
A type of reverse-circulating drilling machine and power parts protection system thereof (一種反循環樁機及其動力部件保護系統)	201020121544.0	Utility patent	Beijing Sany Heavy Machinery	PRC	February 26, 2010	February 26, 2020
Front limit structure for slender rod (用於細長杆件的前限位結構及包含此結構的試驗檢測裝置)	201020149337.6	Utility patent	Beijing Sany Heavy Machinery	PRC	March 31, 2010	March 31, 2020
Back limit structure for slender rod (用於細長杆件的後限位結構及包含此結構的試驗檢測裝置)	201020149336.1	Utility patent	Beijing Sany Heavy Machinery	PRC	March 31, 2010	March 31, 2020
A type of folding line groove reel and lifting equipment (一種折綫繩槽捲筒及起重設備)	201020231104.0	Utility patent	Beijing Sany Heavy Machinery	PRC	June 11, 2010	June 11, 2020
A type of protector drive and rotary drilling rig (一種護筒驅動器及旋挖鑽機)	201020231103.6	Utility patent	Beijing Sany Heavy Machinery	PRC	June 11, 2010	June 11, 2020
A type of rotary joint (一種旋轉接頭)	201020236571.2	Utility patent	Beijing Sany Heavy Machinery	PRC	June 17, 2010	June 17, 2020
Testing device for shield tunneling machine and cylinder launching speed and distance (盾構機及推進油缸速度和行程的檢測裝置)	201020229688.8	Utility patent	Beijing Sany Heavy Machinery	PRC	June 18, 2010	June 18, 2020
A type of mast lowering device (一種下桅杆裝置)	201020247691.2	Utility patent	Beijing Sany Heavy Machinery	PRC	June 23, 2010	June 23, 2020
A type of winch and drum thereof (一種捲揚機及其捲筒)	201020249806.1	Utility patent	Beijing Sany Heavy Machinery	PRC	June 25, 2010	June 25, 2020
Rotary drilling rig and flat head device thereof (旋挖鑽機及其扁頭裝置)	201020249786.8	Utility patent	Beijing Sany Heavy Machinery	PRC	June 25, 2010	June 25, 2020
A type of piling machine and hoist aiding device thereof (一種樁工機械及其卷揚輔助裝置)	201020250514.X	Utility patent	Beijing Sany Heavy Machinery	PRC	June 28, 2010	June 28, 2020
Rotary drilling rig power head case sealing device and rotary drilling rig (旋挖鑽機動力頭箱體密封裝置及旋挖鑽機)	201020250509.9	Utility patent	Beijing Sany Heavy Machinery	PRC	June 28, 2010	June 28, 2020

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Rotary drilling rig and process switching device thereof (旋挖鑽機及其工法轉換裝置)	201020250511.6	Utility patent	Beijing Sany Heavy Machinery	PRC	June 28, 2010	June 28, 2020
A type of pipe washing casing (一種管索沖洗套)	201020270879.9	Utility patent	Beijing Sany Heavy Machinery	PRC	July 22, 2010	July 22, 2020
Rotary drilling rig and drill thereof (旋挖鑽機及其筒鑽)	201020276595.0	Utility patent	Beijing Sany Heavy Machinery	PRC	July 29, 2010	July 29, 2020
A type of enhanced sleeve device (一種加強套裝置)	201020292916.6	Utility patent	Beijing Sany Heavy Machinery	PRC	August 13, 2010	August 13, 2020
A type of drill rod fixing device and rotary drilling rig with the same (一種鑽杆固定裝置及包括該鑽杆固定裝置的旋挖鑽機)	201020501011.5	Utility patent	Beijing Sany Heavy Machinery	PRC	August 20, 2010	August 20, 2020
A type of rotary drilling rig and drill rod fixing device thereof (一種旋挖鑽機及其鑽杆固定裝置)	201020501005.X	Utility patent	Beijing Sany Heavy Machinery	PRC	August 20, 2010	August 20, 2020
Rotary drilling rig and counterweight device thereof (旋挖鑽機及其配重裝置)	201020503967.9	Utility patent	Beijing Sany Heavy Machinery	PRC	August 24, 2010	August 24, 2020
A type of assembly and welding mould for positioning in rotary drilling rig reaming component welding (一種用於旋挖鑽機擴孔組件焊接時定位的組焊模具)	201020505595.3	Utility patent	Beijing Sany Heavy Machinery	PRC	August 25, 2010	August 25, 2020
A type of rotary drilling rig and drilling rod (一種旋挖鑽機及鑽杆)	201020540127.X	Utility patent	Beijing Sany Heavy Machinery	PRC	September 21, 2010	September 21, 2020
A type of rotary drilling rig and rotary drilling tool thereof (一種旋挖鑽機及其旋挖鑽具)	201020551361.2	Utility patent	Beijing Sany Heavy Machinery	PRC	September 29, 2010	September 29, 2020
A type of rotary drilling rig (一種旋挖鑽機)	201020554747.9	Utility patent	Beijing Sany Heavy Machinery	PRC	September 30, 2010	September 30, 2020
A type of small rotary drilling rig (一種小型旋挖鑽機)	201020554726.7	Utility patent	Beijing Sany Heavy Machinery	PRC	September 30, 2010	September 30, 2020
Engineering machinery and reeling device thereof (工程機械及其卷盤裝置)	201020575014.3	Utility patent	Beijing Sany Heavy Machinery	PRC	October 18, 2010	October 18, 2020

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
A type of drilling rod device and engineering device with the same (一種鑽杆裝置及包括該裝置的工程機械)	201020659238.2	Utility patent	Beijing Sany Heavy Machinery	PRC	December 13, 2010	December 13, 2020
A type of rotary drilling rig power head and rotary drilling rig (一種旋挖鑽機動力頭及旋挖鑽機)	201020659107.4	Utility patent	Beijing Sany Heavy Machinery	PRC	December 13, 2010	December 13, 2020
Method and system for implementing error screen suppression (實現花屏抑制的方法和系統)	200810178406.3	Invention patent	our Company	PRC	November 24, 2008	November 24, 2028
Engineering machinery and telescopic structure control system thereof (工程機械及其伸縮結構控制系統)	201020605406.X	Utility patent	the Company	PRC	November 12, 2010	November 12, 2020
Method and device for reducing over-high deflection in amplitude changing process of crawler crane arm support (減少履帶起重機臂架變幅過程中撓度過大的方法及其裝置)	200910047757.5	Invention patent	Kunshan Sany Machinery	PRC	March 18, 2009	March 18, 2029
Lock-up mechanism for slippage door and slippage door (用於滑移門的鎖止機構及滑移門)	200910303983.5	Invention patent	the Company	PRC	July 3, 2009	July 3, 2029
A type of calibrating and positioning method and device (一種標定定位的方法和裝置)	200910176993.7	Invention patent	the Company	PRC	September 29, 2009	September 29, 2029
Portable spreader operation controller and spreader using the same (便攜式攤鋪機操控裝置及使用該操控裝置的攤鋪機)	200810178407.8	Invention patent	the Company	PRC	November 24, 2008	November 24, 2028
A type of power-off protection method and device (一種掉電保護的方法及設備)	200810178416.7	Invention patent	the Company	PRC	November 24, 2008	November 24, 2028

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
A type of control method, apparatus and system for truck-mounted concrete pump (一種混凝土泵車的控制方法、裝置及系統)	200910001239.X	Invention patent	the Company	PRC	January 14, 2009	January 14, 2029
Arm support link mechanism, folding type arm support and truck-mounted concrete pump (臂架連杆機構、折疊式臂架及混凝土泵車)	200810186155.3	Invention patent	the Company	PRC	December 19, 2008	December 19, 2028
A type of cutter holding device and milling-planing machine (一種刀具夾持裝置及銑刨機)	200910135327.9	Invention patent	the Company	PRC	April 20, 2009	April 20, 2029
A type of truck-mounted concrete pump supporting leg and truck-mounted concrete pump therewith (一種混凝土泵車的支腿以及具有這種支腿的混凝土泵車)	200810095056.4	Invention patent	the Company	PRC	April 28, 2008	April 28, 2028
Milling-planing machine outrigger elevator apparatus and pavement milling-planing machine using the same (銑刨機支腿升降裝置及使用該支腿升降裝置的路面銑刨機)	200810174522.8	Invention patent	the Company	PRC	November 5, 2008	November 5, 2028
Crawler crane (履帶起重機)	200930100141.0	Design patent	Kunshan Sany Machinery	PRC	July 28, 2009	July 28, 2019
(一種布料杆及其爬升托架)	20112004919.5	Utility patent	the Company	PRC	February 17, 2011	February 17, 2021
Pumping system and distributing valve thereof and concrete delivery machinery (泵送系統及其分配閥、混凝土輸送機械)	201120116313.5	Utility patent	the Company	PRC	April 19, 2011	April 19, 2021
Marine excavator downloading fixing structure (船用挖掘機下車固定結構)	201020277573.6	Utility patent	Sany Heavy Machinery	PRC	July 30, 2010	August 24, 2011
Excavator pedal (挖掘機踏板)	201020549690.3	Utility patent	Sany Heavy Machinery	PRC	September 30, 2010	August 24, 2011
Excavator armrest box (挖掘機扶手箱)	201030629910.9	Design patent	Sany Heavy Machinery	PRC	November 23, 2010	July 27, 2011
Small electrical excavator decal (2) (電動小挖貼花(2))	201030629923.6	Design patent	Sany Heavy Machinery	PRC	November 23, 2010	July 27, 2011

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Hybrid power excavator decal (混合動力挖掘機貼花)	201030629907.7	Design patent	Sany Heavy Machinery	PRC	November 23, 2010	August 10, 2011
Reaming pile bottom-cleaning drilling bucket (擴孔樁清底鑽鬥)	201020671581.9	Utility patent	Beijing Sany Heavy Machinery	PRC	December 21, 2010	August 24, 2011
Telescopic drill rod (伸縮式鑽杆)	201020671572.X	Utility patent	Beijing Sany Heavy Machinery	PRC	December 21, 2010	August 24, 2011
Telescope mast (伸縮式桅杆)	201020671472.7	Utility patent	Beijing Sany Heavy Machinery	PRC	December 21, 2010	August 24, 2011
Rotary drilling rig uploading rotating speed limit system (旋挖鑽機上車回轉限速系統)	201020690976.3	Utility patent	Beijing Sany Heavy Machinery	PRC	December 30, 2010	August 24, 2011
Rotary drilling rig rotating radar monitoring system (旋挖鑽機回轉雷達監控系統)	201020680630.5	Utility patent	Beijing Sany Heavy Machinery	PRC	December 30, 2010	August 24, 2011
Controllable low-speed high-torque power head motor (可控低速大扭矩動力頭馬達)	201020687352.6	Utility patent	Beijing Sany Heavy Machinery	PRC	December 29, 2010	August 24, 2011
Mast stabilization hydraulic system (桅杆防抖液壓系統)	201020687403.5	Utility patent	Beijing Sany Heavy Machinery	PRC	December 29, 2010	August 24, 2011
Rotary drilling rig power head system with multi-level limit torque functions (具有多級限扭功能的旋挖鑽機動力頭系統)	201020687381.2	Utility patent	Beijing Sany Heavy Machinery	PRC	December 29, 2010	August 24, 2011
Inner spiral cylindrical drill (內螺旋筒式鑽具)	201020681422.7	Utility patent	Beijing Sany Heavy Machinery	PRC	December 24, 2010	August 24, 2011
Heat insulation device for muffler of tired road roller and tired road roller thereof (輪胎壓路機消音器的隔熱裝置及其輪胎壓路機)	201120027213.5	Utility patent	Sany Heavy Industry	PRC	January 27, 2011	August 3, 2011
Control device of parking brake in engineering machinery and parking brake (工程機械中駐車制動器的控制裝置及駐車制動器)	201120016764.1	Utility patent	Sany Heavy Industry	PRC	January 19, 2011	August 3, 2011
A type of excavator short bucket lever (一種挖掘機短鬥杆)	201120035798.5	Utility patent	Kunshan Sany Heavy Machinery	PRC	February 10, 2011	August 10, 2011

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Name of Patent	Patent No. (ZL)	Type of Patent	Name of Registered Proprietor	Place of Registration	Date of Application	Expiry Date
Radio for use in excavator (挖掘機用收音機)	201130016710.0	Design patent	Kunshan Sany Heavy Machinery	PRC	January 27, 2011	August 3, 2011
Excavator (挖掘機)	201130057051.5	Design patent	Kunshan Sany Heavy Machinery	PRC	March 28, 2011	August 17, 2011
Excavator armrest box (挖掘機扶手箱)	201130096766.1	Design patent	Kunshan Sany Heavy Machinery	PRC	April 28, 2011	August 17, 2011
Engineering machinery driver's cab (SY75) (工程機械駕駛室(SY75))	201130096772.7	Design patent	Kunshan Sany Heavy Machinery	PRC	April 28, 2011	August 17, 2011

(ii) As of the Latest Practicable Date, we have applied for the registration of the following patents:

Name of Patent	Application No.	Type of Patent	Name of Applicant	Place on Application	Date of Application
Spectacles plate and cutting ring for concrete delivery pump (混凝土輸送泵用眼鏡板和切割環)	200710187135.3	Invention patent	the Company	PRC	November 16, 2007
Hydraulic power transmission engineering vehicle antiskid method, system as well as leveler (液壓傳動工程車輛抗滑轉方法、系統以及平地機)	200810002708.5	Invention patent	the Company	PRC	January 9, 2008
A type of concrete distributing valve and concrete pumping mechanism (一種混凝土分配閥及混凝土泵送機構)	200810087719.8	Invention patent	the Company	PRC	March 24, 2008
Hydraulic grader transmission gear (液壓平地機傳動裝置)	200810002756.4	Invention patent	the Company	PRC	January 16, 2008
A type of matching authentication method, apparatus and system for radio communication apparatus (一種無線通信設備匹配認證方法、裝置及系統)	200810127641.8	Invention patent	the Company	PRC	July 2, 2008
A type of land leveler control method, system and leveler (一種平地機控制方法、系統及平地機)	200810135524.6	Invention patent	the Company	PRC	August 29, 2008
Main power system of concrete delivery pump and concrete delivery pump (混凝土輸送泵主動力系統及混凝土輸送泵)	200810149334.X	Invention patent	the Company	PRC	September 19, 2008
A type of tilt sensor sensitive axis zero position output value calibrating method and apparatus (一種標定傾角傳感器敏感軸零位輸出的方法及裝置)	200810161295.5	Invention patent	the Company	PRC	September 24, 2008

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Name of Patent	Application No.	Type of Patent	Name of Applicant	Place on Application	Date of Application
Concrete pump and wear resistant member thereof and method for manufacturing the member (混凝土泵的耐磨部件和混凝土泵及製造該耐磨部件的方法)	200910159057.5	Invention patent	the Company	PRC	August 4, 2009
Engineering machinery control system, engineering machinery and control method thereof (工程機械的控制系統、工程機械和工程機械的控制方法)	200910165370.X	Invention patent	the Company	PRC	August 7, 2009
A type of manufacturing method for delivery bent pipe, concrete delivery machinery and bent pipe (一種輸送彎管、混凝土輸送機械及輸送彎管的製作方法)	200910159056.0	Invention patent	the Company	PRC	August 4, 2009
A type of engineering machinery and multi-pass synchronous lubricating device (一種工程機械及其多路同步潤滑裝置)	200910259450.1	Invention patent	the Company	PRC	December 22, 2009
A type of concrete delivery device wear resistant member treatment method and wear resistant member (一種混凝土輸送裝置用耐磨工件的處理方法及耐磨工件)	200910163725.1	Invention patent	the Company	PRC	August 14, 2009
Concrete pumping equipment and piston body thereof (混凝土泵送設備及其活塞體)	200910166824.5	Invention patent	the Company	PRC	August 31, 2009
A type of protection method and system for electric control diesel engine (一種電控柴油發動機的保護方法及系統)	200910171084.4	Invention patent	the Company	PRC	September 4, 2009
Walking type engineering machinery and support device thereof (行走式工程機械及其支撐裝置)	200910212294.3	Invention patent	the Company	PRC	November 16, 2009
Electric control system for control of engineering equipment and engineering equipment (用於控制工程設備的電氣控制系統和工程設備)	200910211711.2	Invention patent	the Company	PRC	November 10, 2009
A type of angle measurement apparatus and method and engineering machinery (一種角度測量裝置和方法及工程機械)	200910260064.4	Invention patent	the Company	PRC	December 24, 2009
Truck-mounted concrete pump position detecting apparatus and method and truck-mounted concrete pump (混凝土泵車位置檢測裝置和方法及混凝土泵車)	200910250719.X	Invention patent	the Company	PRC	December 9, 2009
Fault diagnostic system and method (故障診斷系統及方法)	200910260222.6	Invention patent	the Company	PRC	December 25, 2009
Jib system positioning method, device and truck-mounted concrete pump (臂架系統的定位方法、定位裝置及混凝土泵車)	200910260223.0	Invention patent	the Company	PRC	December 25, 2009

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Name of Patent	Application No.	Type of Patent	Name of Applicant	Place on Application	Date of Application
A type of storage hopper device and dry powder mortar mixing plant containing the same (一種料倉裝置及包括該裝置的乾粉砂漿攪拌站)	200910260044.7	Invention patent	the Company	PRC	December 23, 2009
Pumping equipment seal components, distribution valve assembly, pumping device and control method (泵送設備的密封組件、分配閥總成、泵送設備及控制方法)	200910259863.X	Invention patent	the Company	PRC	December 16, 2009
Distribution valve for concrete pump, concrete pump and control method thereof and truck-mounted concrete pump (混凝土泵用分配閥、混凝土泵及其控制方法和混凝土泵車)	201010114510.3	Invention patent	the Company	PRC	February 9, 2010
Pumping flux control system, pumping flux control method and concrete pump (泵送排量控制系統、泵送排量控制方法和混凝土泵)	200910259579.2	Invention patent	the Company	PRC	December 21, 2009
A type of mortar vehicle control system, mortar vehicle and control method thereof (一種砂漿車的控制系統、砂漿車及砂漿車的控制方法)	200910266196.8	Invention patent	the Company	PRC	December 31, 2009
A type of wireless link backup system (一種無線鏈路備份系統)	200910266115.4	Invention patent	the Company	PRC	December 30, 2009
Concrete mixer and lubricating oil supply control system and method thereof (混凝土攪拌機及其潤滑油供給控制系統和方法)	201010139847.X	Invention patent	the Company	PRC	March 30, 2010
Engineering machinery and stability control system thereof (工程機械及其穩定性控制系統)	201010139806.0	Invention patent	the Company	PRC	March 30, 2010
Cylinder set for use in retraction mechanism (用於伸縮機構的油缸組)	200610136817.7	Invention patent	the Company	PRC	December 7, 2006
Asphalt cement mortar vehicle (瀝青水泥砂漿車) (I)	200810032018.4	Invention patent	the Company	PRC	August 7, 2008
Asphalt cement mortar vehicle (瀝青水泥砂漿車) (I I)	200810032019.9	Invention patent	the Company	PRC	August 7, 2008
Asphalt cement mortar vehicle (瀝青水泥砂漿車) (I I I)	200810032020.1	Invention patent	the Company	PRC	August 7, 2008
Double-compressor air conditioning plant for bi-motor automobile (雙發動機車用雙壓縮機空調裝置)	200810143545.2	Invention patent	the Company	PRC	November 10, 2008
Asphalt cement mortar vehicle (水泥瀝青砂漿車)	200910043137.4	Invention patent	the Company	PRC	April 17, 2009
Mortar vehicle with upper structure detachable (上裝可分離的砂漿車)	200910226778.3	Invention patent	the Company	PRC	December 31, 2009

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Name of Patent	Application No.	Type of Patent	Name of Applicant	Place on Application	Date of Application
Reutilizing device for automobile air-conditioning condensation water (汽車空調冷凝水的再利用裝置)	200910263831.7	Invention patent	the Company	PRC	December 16, 2009
Diplane integrated guide rail type slip door and vehicle with slip door (雙平面集成導軌式滑移門及具有滑移門的車輛)	200910304186.9	Invention patent	the Company	PRC	July 9, 2009
Automatic oil jetting device and tired road roller (自動噴油裝置及輪胎壓路機)	200910310537.7	Invention patent	the Company	PRC	November 27, 2009
A type of automatic anti-blockage method and device (一種自動排堵的方法和裝置)	200910176764.5	Invention patent	the Company	PRC	September 21, 2009
A type of steel structure mixing plant base and implementation method (一種鋼結構攪拌站底座及實現方法)	200910170384.0	Invention patent	the Company	PRC	September 14, 2009
Engine start control method, device and vehicle and/or engineering machinery with the device (發動機啓動控制方法、裝置和應用該裝置的車輛和/或工程機械)	200910222387.4	Invention patent	the Company	PRC	November 17, 2009
Proportional solenoid valve control method, device and engineering machinery with the device (比例電磁閥控制方法、裝置和應用該裝置的工程機械)	200910224049.4	Invention patent	the Company	PRC	December 1, 2009
Dumping method, device and lower bin mixing plant therewith (卸料方法、裝置以及具有該裝置的下置倉式攪拌站)	200910249604.9	Invention patent	the Company	PRC	December 8, 2009
Beam energy recovery and shock absorbing system and beam energy recovery method and shock absorbing method (用於臂架的能量回收減振系統及用於臂架的能量回收方法和減振方法)	200910249670.6	Invention patent	the Company	PRC	December 11, 2009
A type of concrete wet spraying equipment (一種混凝土濕噴設備)	200910259595.1	Invention patent	the Company	PRC	December 21, 2009
Hydraulic cylinder (液壓油缸)	200910259741.0	Invention patent	the Company	PRC	December 25, 2009
Concrete pumping mechanism and control method thereof (混凝土泵送結構和混凝土泵送結構的控制方法)	201010125240.6	Invention patent	the Company	PRC	March 16, 2010
Concrete pumping mechanism (混凝土泵送結構)	201010125059.5	Invention patent	the Company	PRC	March 16, 2010
Mixer and mixing plant or station and operating method of mixing plant or station (攪拌機及攪拌站或樓及該攪拌站或樓的運行方法)	200910180479.0	Invention patent	the Company	PRC	October 16, 2009

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Name of Patent	Application No.	Type of Patent	Name of Applicant	Place on Application	Date of Application
One-pump multi-motor hydraulic system and motor idle running prevention method (單泵多馬達液壓系統及防止馬達空閑自轉的方法)	200910180031.9	Invention patent	the Company	PRC	October 23, 2009
Monitor device and method for at least one rotating parameter of rotating object (檢測旋轉物體的至少一個旋轉參數的檢測裝置和檢測方法)	200910210561.3	Invention patent	the Company	PRC	November 10, 2009
Lifting mechanism travel control device, lifter and corresponding control method (提升機構行程控制裝置、提升機和相應的控制方法)	200910266197.2	Invention patent	the Company	PRC	December 31, 2009
Spraying cleaning device for stirring hoist (攪拌主機用噴淋清洗裝置)	200710166021.0	Invention patent	the Company	PRC	October 31, 2007
Wireless transmitting/receiving device and matching method thereof (無線收發裝置的匹配方法及無線收發裝置)	200810178415.2	Invention patent	the Company	PRC	November 24, 2008
A type of method and device for controlling backlight of liquid crystal display (一種液晶顯示器的背光控制方法及裝置)	200910151489.1	Invention patent	the Company	PRC	July 23, 2009
Power shared vehicle-mounted pump engine power output control method and system (一種動力共用車載泵發動機動力輸出控制方法及系統)	200910003068.4	Invention patent	the Company	PRC	January 9, 2009
A type of control method, apparatus and system for truck-mounted concrete pump (一種混凝土泵車的控制方法、裝置及系統)	200910001239.X	Invention patent	the Company	PRC	January 14, 2009
Sensor calibrating method and device for mechanical arm or manipulator angle measurement (用於測量機械臂或機械手角度的傳感器標定方法及裝置)	200810188856.0	Invention patent	the Company	PRC	December 30, 2008
Diesel engine throttle position detection method and detection apparatus (柴油機油門位置檢測方法及檢測裝置)	200810184058.0	Invention patent	the Company	PRC	December 15, 2008
A type of engineering machinery control system, engineering machinery and engineering machinery control method (一種工程機械控制系統、工程機械及工程機械控制方法)	200910001579.2	Invention patent	the Company	PRC	January 12, 2009
Detection method and apparatus for CAN bus element communication state (CAN總線元器件通信狀態的檢測方法及檢測裝置)	200910127229.0	Invention patent	the Company	PRC	March 9, 2009

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Name of Patent	Application No.	Type of Patent	Name of Applicant	Place on Application	Date of Application
A type of gear box detection device (一種變速箱檢測裝置)	200910129549.X	Invention patent	the Company	PRC	March 26, 2009
A type of swiveling mechanism and engineering machinery with the same (一種回轉機構及帶有該回轉機構的工程機械)	200910135326.4	Invention patent	the Company	PRC	April 20, 2009
A type of heavy mechanical manipulator control method and system (一種大型工程機械手的控制方法及控制系統)	200910161663.0	Invention patent	the Company	PRC	July 28, 2009
A method for manufacturing powder tank (一種製作粉料罐的方法)	200910135252.4	Invention patent	the Company	PRC	April 28, 2009
Wear resistant conveying pipe, concrete conveying mechanism and method for manufacturing the wear resistant conveying pipe (耐磨輸送管、混凝土輸送機械及製造耐磨輸送管的方法)	200910142977.6	Invention patent	the Company	PRC	May 19, 2009
A type of low-alloy steel for manufacture of crawler crane creeper tread and preparing method thereof (一種用於製造履帶式起重機履帶板的低合金鋼及製備方法)	200910249931.4	Invention patent	the Company	PRC	December 7, 2009
A type of spectacles plate for concrete delivery pump and manufacture method thereof (一種混凝土輸送泵用眼鏡板及其製造方法)	200910266116.9	Invention patent	the Company	PRC	December 30, 2009
A type of cast low-alloy steel for grader blade and manufacture method thereof (一種用於平地機刀片的鑄造低合金鋼及製備方法)	200910224241.3	Invention patent	the Company	PRC	November 26, 2009
A type of bituminous binder road-surface mechanized construction process (一種瀝青混合料道路面層機械化施工工藝)	02139685.X	Invention patent	the Company and 長沙交通學院	PRC	October 11, 2002
Steel-plastic composite pipe used for concrete pumping machinery and producing method thereof (用於混凝土泵送機械的鋼塑複合管及其生產方法)	200510031382.5	Invention patent	the Company	PRC	March 29, 2005
Flexible supporting device for running type machine (行走式機械中使用的可伸縮支承裝置)	200610167698.1	Invention patent	the Company	PRC	December 22, 2006
Movable truck-mounted concrete pump (可移動混凝土泵車)	200610172196.8	Invention patent	the Company	PRC	December 30, 2006
A type of hydraulic pressure driving mechanism speed control device (一種液壓驅動機構速度控制裝置)	200710166020.6	Invention patent	the Company	PRC	October 31, 2007
Controller inner program downloading method and downloading system (控制器內部程序的下載方法及下載系統)	200710194918.4	Invention patent	the Company	PRC	December 6, 2007

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Name of Patent	Application No.	Type of Patent	Name of Applicant	Place on Application	Date of Application
Fine material weighing measurement method and device thereof (粉料稱重計量方法及裝置)	200710142591.6	Invention patent	the Company	PRC	August 29, 2007
A type of method and system for improving stability of engineering machinery communication terminal (一種提高工程機械通信終端穩定性的方法及系統)	200710195980.5	Invention patent	the Company	PRC	December 14, 2007
Engineering vehicle power system matching method and system (工程車輛動力系統匹配方法及系統)	200810172620.8	Invention patent	the Company	PRC	November 4, 2008
A type of rotating angle measurement apparatus and rotating angle measurement method (一種旋轉角度測量裝置及旋轉角度測量方法)	200810172726.8	Invention patent	the Company	PRC	November 11, 2008
A type of metering control system, concrete spraying machine and metering control method (一種計量控制系統、混凝土濕噴機及計量控制方法)	200810172727.2	Invention patent	the Company	PRC	November 11, 2008
Folding type arm support link mechanism and truck-mounted concrete pump by using the same (折疊式臂架連杆機構及使用該機構的混凝土泵車)	200810174521.3	Invention patent	the Company	PRC	November 5, 2008
Truck-mounted mixer constant speed control device, truck-mounted mixer and method for controlling stirring drum constant speed (攪拌車恆速控制裝置、攪拌車及控制攪拌筒恆轉速的方法)	200910170777.1	Invention patent	the Company	PRC	September 11, 2009
Tired spreader and front wheel driving control system and method thereof (輪胎式攤鋪機的前輪驅動控制系統、方法以及輪胎式攤鋪機)	200910210560.9	Invention patent	the Company	PRC	November 10, 2009
A type of conveying pipe, concrete conveying machinery and conveying pipe manufacture method (一種輸送管、混凝土輸送機械及輸送管的製作方法)	200910179426.7	Invention patent	the Company	PRC	October 9, 2009
A type of sectional arm for placing boom and manufacture method thereof, concrete conveying machinery (一種布料臂架的節臂及其製作方法、混凝土輸送機械)	200910179427.1	Invention patent	the Company	PRC	October 9, 2009
Driving system and concrete mixer truck therewith (驅動系統及具有該系統的混凝土攪拌運輸車)	200910223511.9	Invention patent	the Company	PRC	November 23, 2009
Concrete pump distributing valve and concrete pump (混凝土泵用分配閥及混凝土泵)	201010164558.5	Invention patent	the Company	PRC	April 16, 2010

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Name of Patent	Application No.	Type of Patent	Name of Applicant	Place on Application	Date of Application
Method and apparatus for realizing CAN bus sensor position binding (實現CAN總綫傳感器位置綁定的方法及裝置)	201010174500.9	Invention patent	the Company	PRC	May 10, 2010
Concrete pumping equipment and piston body thereof (混凝土泵送設備及其活塞體)	200910207245.0	Invention patent	the Company	PRC	October 22, 2009
Supporting device and truck-mounted mixer (支撐裝置及攪拌車)	201010184814.7	Invention patent	the Company	PRC	May 21, 2010
A type of truck-mounted mixer (一種攪拌車)	201010184811.3	Invention patent	the Company	PRC	May 21, 2010
A type of movable concrete batching plant and batching machine thereof (一種移動式混凝土攪拌站及其配料機)	201010193094.0	Invention patent	the Company	PRC	May 31, 2010
A type of single-cylinder bolt type telescopic jib device and bolt interlocking device (一種單缸插銷式伸縮臂裝置和插銷互鎖裝置)	201010212167.6	Invention patent	Sany Automobile Hoisting Machinery Co., Ltd.	PRC	June 22, 2010
A type of hydraulic system and engineering machinery therewith (一種液壓系統及具有該液壓系統的工程機械)	201010212147.9	Invention patent	the Company	PRC	June 22, 2010
Mortar vehicle and measuring system and method for volume of the finished product bucket thereof (砂漿車及其成品斗容積檢測系統和方法)	201010214862.6	Invention patent	the Company	PRC	June 28, 2010
Mortar vehicle and levelling system and method for the storing hopper thereof (砂漿車及其儲料斗調平系統和方法)	201010212150.0	Invention patent	the Company	PRC	June 22, 2010
A type of jib system and pumping machinery (一種臂架系統及泵送機械)	201010234462.1	Invention patent	the Company	PRC	July 20, 2010
A type of truck-mounted concrete pump training system (一種混凝土泵車培訓系統)	201010235546.7	Invention patent	the Company	PRC	July 22, 2010
A damping device of jib system, jib system and pumping machinery (一種臂架系統的減振裝置、臂架系統及泵送機械)	201010235324.5	Invention patent	the Company	PRC	July 21, 2010
Wind generator set and variable pitch control system thereof (風力發電機組及其變槳距控制系統)	201010238427.7	Invention patent	the Company	PRC	July 26, 2010
Truck-mounted mixer and stirring drum control system thereof (攪拌車及其攪拌筒控制系統)	201010235524.0	Invention patent	the Company	PRC	July 22, 2010
A type of mechanical articulated jib control method and control device (一種機械鉸接臂的控制方法及控制裝置)	201010219928.0	Invention patent	the Company	PRC	July 1, 2010

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Name of Patent	Application No.	Type of Patent	Name of Applicant	Place on Application	Date of Application
A type of Bluetooth device for engineering machinery and engineering machinery (一種應用於工程機械中的藍牙設備及工程機械)	201010219926.1	Invention patent	the Company	PRC	July 1, 2010
A type of electrical bridge null regulating circuit (一種電橋零點調節電路)	201010216914.3	Invention patent	the Company	PRC	June 29, 2010
Engineering machinery and jib control system thereof (工程機械及其臂架控制系統)	201010216922.8	Invention patent	the Company	PRC	June 29, 2010
Truck-mounted concrete pump and control method, pumping device and distributing mechanism thereof (混凝土泵車及其控制方法、泵送裝置及其分配機構)	201010203362.2	Invention patent	the Company	PRC	June 11, 2010
End hose device, truck-mounted concrete pump and pipeline delivery device (末端軟管裝置、混凝土泵車及管道輸送裝置)	201010203365.6	Invention patent	the Company	PRC	June 11, 2010
A type of pumping system and truck-mounted concrete pump therewith (一種泵送系統及具有該泵送系統的混凝土泵車)	201010249218.2	Invention patent	the Company	PRC	August 3, 2010
A type of pumping system and truck-mounted concrete pump therewith (一種泵送系統及具有該泵送系統的混凝土泵車)	201010249220.X	Invention patent	the Company	PRC	August 3, 2010
A type of reverse connection prevention circuit for power supply (一種電源防反接電路)	201010254001.0	Invention patent	the Company	PRC	August 12, 2010
Truck-mounted concrete pump and control method, pumping system and distributing mechanism thereof (混凝土泵車及其控制方法、泵送系統及其分配機構)	201010266367.X	Invention patent	the Company	PRC	August 25, 2010
A type of delivery equipment and delivery bent pipe thereof (一種輸送設備及其輸送彎管)	201010263860.6	Invention patent	the Company	PRC	August 24, 2010
A type of pumping machinery (一種泵送機械)	201010289628.X	Invention patent	the Company	PRC	September 19, 2010
A type of pumping machinery (一種泵送機械)	201010289809.2	Invention patent	the Company	PRC	September 19, 2010
Conversion circuit, detecting method and system for the phase sequence of three-phase electricity and electric motor (轉換電路、三相電的相序檢測方法和系統及電動機)	201010287701.X	Invention patent	the Company	PRC	September 17, 2010

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Name of Patent	Application No.	Type of Patent	Name of Applicant	Place on Application	Date of Application
A type of conveyor belt deviation-regulating device and telescopic belt delivery wagon (一種輸送帶調偏裝置及伸縮式皮帶輸送車)	201010283870.6	Invention patent	the Company	PRC	September 14, 2010
Concrete pump lubricating system and concrete pumping equipment (混凝土輸送泵潤滑系統及混凝土泵送設備)	201010283912.6	Invention patent	the Company	PRC	September 14, 2010
Batching plant and condition monitoring system and method for the truck-mounted mixer thereof (攪拌站及其攪拌車狀態監測系統和方法)	201010277102.X	Invention patent	the Company	PRC	September 8, 2010
A type of travel driving device and grader (一種行駛驅動裝置及平地機)	201010276980.X	Invention patent	the Company	PRC	September 7, 2010
A type of movable pumping machinery (一種可移動式泵送機械)	201010276577.7	Invention patent	the Company	PRC	September 6, 2010
A type of concrete mixer composite blade and preparing method thereof (一種混凝土攪拌複合葉片及其製備方法)	201010508609.1	Invention patent	the Company	PRC	September 30, 2010
Concrete pump and pumping system thereof (混凝土泵及其泵送系統)	201010541118.7	Invention patent	the Company	PRC	November 11, 2010
Engineering machinery and crawler type travelling system thereof (工程機械及其履帶式行走系統)	201010551352.8	Invention patent	the Company	PRC	November 19, 2010
Anti-segregation device and mixture storage system therewith (防離析裝置以及具有該裝置的混合料存儲系統)	201010189382.9	Invention patent	the Company	PRC	May 26, 2010
Monitoring system for discharging truck-mounted mixer and truck-mounted concrete mixer therewith (攪拌車卸料監控系統及具有該系統的混凝土攪拌車)	201010215985.1	Invention patent	the Company	PRC	July 2, 2010
Blanking-adjustable discharging hopper device and concrete mixing equipment therewith (可調節落料的卸料斗裝置及具有其的混凝土攪拌設備)	201010222745.4	Invention patent	the Company	PRC	June 30, 2010
Vibratory screening mechanism and early warning for broken vibration screen mesh thereof (振動篩分機構及其振動篩篩網破裂的預警裝置)	201010210813.5	Invention patent	the Company	PRC	June 28, 2010
Engine cooling fan system and cooling fan control methods therefor (發動機冷卻風扇系統及用於該系統的冷卻風扇控制方法)	201010212109.3	Invention patent	Sany Automobile Hoisting Machinery Co., Ltd.	PRC	June 29, 2010

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Name of Patent	Application No.	Type of Patent	Name of Applicant	Place on Application	Date of Application
Super lifting device and telescopic jib lifting apparatus therewith (超起裝置和具有該裝置的伸縮臂起重設備)	201010217014.0	Invention patent	Sany Automobile Hoisting Machinery Co., Ltd.	PRC	July 5, 2010
A type of reinforced layer coating for investment casting and preparing method thereof (一種熔模鑄造用加固層塗料及其製備方法)	201010222184.8	Invention patent	the Company	PRC	July 9, 2010
Hydraulic valve, hydraulic valve set and control method thereof (液壓閥、液壓閥組及其控制方法)	201010240847.9	Invention patent	the Company	PRC	July 30, 2010
Pneumatic brake system and crane therewith and Pneumatic braking method (氣壓制動系統及具有其的起重機與氣壓制動方法)	201010259656.7	Invention patent	Sany Automobile Hoisting Machinery Co., Ltd.	PRC	August 23, 2010
Engine and early warning control device and method thereof (發動機、發動機的預警控制裝置及發動機的預警控制方法)	201010258324.7	Invention patent	the Company	PRC	August 20, 2010
Multi-stage cylinder and hydraulic equipment therewith (多級油缸及具有其的液壓設備)	201010267507.5	Invention patent	Sany Automobile Hoisting Machinery Co., Ltd.	PRC	August 31, 2010
Clutch system refueling device and method (離合系統加油裝置及方法)	201010272818.0	Invention patent	Sany Automobile Hoisting Machinery Co., Ltd.	PRC	September 6, 2010
Suspension control method and suspension system and crane therewith (懸掛系統控制方法與懸掛系統及具有其的起重機)	201010274011.0	Invention patent	Sany Automobile Hoisting Machinery Co., Ltd.	PRC	September 7, 2010
Negative pressure monitoring system and method for powder metering (粉料計量的負壓監控系統和負壓監控方法)	201010281860.9	Invention patent	the Company	PRC	September 15, 2010
Single-function hydraulic cylinder and paver therewith (單作用液壓油缸及具有該油缸的攤鋪機)	201010279225.7	Invention patent	the Company	PRC	September 13, 2010
Intelligent troubleshooting method and system for engineering machinery and engineering machinery (工程機械的智能故障處理方法與系統以及工程機械)	201010289839.3	Invention patent	the Company	PRC	September 21, 2010

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Name of Patent	Application No.	Type of Patent	Name of Applicant	Place on Application	Date of Application
Single-cylinder pin-bolt type mechanism for crane with telescopic jib (伸縮臂式起重機用單缸插拔銷機構)	201010507091.X	Invention patent	Sany Automobile Hoisting Machinery Co., Ltd.	PRC	October 14, 2010
Truck crane and energy-saving control method and system thereof (汽車起重機及其節能控制方法、節能控制系統)	201010504972.6	Invention patent	Sany Automobile Hoisting Machinery Co., Ltd.	PRC	October 12, 2010
Additive metering and cleaning system and mixing equipment therewith (外加劑計量和清洗系統以及包含其的攪拌設備)	201010504989.1	Invention patent	the Company	PRC	October 12, 2010
Lifting device and lifting appliance therewith (吊運裝置及具有其的吊運設備)	201010522871.1	Invention patent	the Company	PRC	October 27, 2010
Mortar transfer device (砂漿轉運裝置)	201010189579.2	Invention patent	the Company	PRC	June 2, 2010
A type of supporting leg lock-up device and truck-mounted concrete pump (一種支腿鎖止裝置及混凝土泵車)	201010203041.2	Invention patent	the Company	PRC	June 18, 2010
Mortar vehicle with self-travelling hydraulic chassis (具有自行走液壓底盤的砂漿車)	201010229064.0	Invention patent	the Company	PRC	July 16, 2010
A type of pumping equipment and conveying cylinder piston thereof (一種泵送設備及其輸送缸活塞)	201010205708.2	Invention patent	the Company	PRC	June 22, 2010
A type of pumping equipment and conveying cylinder piston thereof (一種泵送設備及其輸送缸活塞)	201010205709.7	Invention patent	the Company	PRC	June 22, 2010
Automatic steering cross-track mortar vehicle chassis and mortar vehicle (可自動轉向的跨軌道砂漿車底盤及砂漿車)	201010229019.5	Invention patent	the Company	PRC	July 16, 2010
A type of hydraulic cylinder and related device, hydraulic buffering system, excavator and concrete pump (一種液壓油缸及其相關裝置、及液壓緩衝系統、挖掘機和混凝土泵車)	201010235136.2	Invention patent	the Company	PRC	July 23, 2010
A type of hydraulic cylinder and related device, hydraulic buffering system, excavator and concrete pump (一種液壓油缸及其相關裝置、及液壓緩衝系統、挖掘機和混凝土泵車)	201010235137.7	Invention patent	the Company	PRC	July 23, 2010
A type of hydraulic cylinder and related device, hydraulic buffer system, excavator and concrete pump (一種液壓油缸及其相關裝置、及液壓緩衝系統、挖掘機和混凝土泵車)	201010235138.1	Invention patent	the Company	PRC	July 23, 2010
Mangle vibrator and paver (熨平板振搗器及攤鋪機)	201010245739.0	Invention patent	the Company	PRC	August 5, 2010

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Name of Patent	Application No.	Type of Patent	Name of Applicant	Place on Application	Date of Application
Driver's cab with turning-over mechanism and double steel-wheeled road roller (帶翻轉機構的駕駛室及雙鋼輪壓路機)	201010248419.0	Invention patent	the Company	PRC	August 9, 2010
Vibration device for road roller and road roller with the same (壓路機用激振裝置及其壓路機)	201010294911.1	Invention patent	the Company	PRC	September 28, 2010
Telescopic unloading device for mortar vehicle and mortar vehicle with the same (砂漿車用伸縮出料裝置及其砂漿車)	201010294913.0	Invention patent	the Company	PRC	September 28, 2010
Paver large arm lifting automatic positioning device for paver and paver (攤鋪機大臂升降自動定位裝置及攤鋪機)	201010528339.0	Invention patent	the Company	PRC	November 2, 2010
Extensible mechanism and anti-deflection chain driving device thereof (伸縮機構用防偏斜鏈條驅動裝置及伸縮機構)	201020123518.1	Utility patent	the Company	PRC	March 4, 2010
Road roller and steel wheel scraper plate mechanism thereof (壓路機鋼輪刮板機構和壓路機)	201020160456.1	Utility patent	the Company	PRC	April 15, 2010
Mortar vehicle and dry powder hopper shimmy damper fixing device thereof (砂漿車乾粉斗減擺固定裝置及砂漿車)	201020173108.8	Utility patent	the Company	PRC	April 28, 2010
Mixer discharge door components and mixer thereof (攪拌機卸料門組件及其攪拌機)	201020185559.3	Utility patent	the Company	PRC	May 11, 2010
Concrete mixer hoist discharge door arc sheathing board and discharge door (用於混凝土攪拌主機卸料門的弧襯板及卸料門)	201020185606.4	Utility patent	the Company	PRC	May 11, 2010
Concrete mixer hoist discharge door sealing device and discharge door (混凝土攪拌主機卸料門的密封裝置及卸料門)	201020185798.9	Utility patent	the Company	PRC	May 11, 2010
Bulldozer travelling device (推土機行走裝置)	01249697.9	Utility patent	the Company	PRC	September 14, 2001
Concrete batching plant and material lifting device thereof (混凝土攪拌站及其物料提升裝置)	201020204892.4	Utility patent	the Company	PRC	May 21, 2010
A type of mortar vehicle and conveying pipe device (一種砂漿車及其輸送管道裝置)	201020208152.8	Utility patent	the Company	PRC	May 26, 2010
A type of check valve and mortar vehicle with the same (一種止回閥及包括該止回閥的砂漿車)	201020208187.1	Utility patent	the Company	PRC	May 26, 2010
Pumping device and distribution mechanism thereof and concrete pump (泵送裝置及其分配機構和混凝土泵車)	201020227468.1	Utility patent	the Company	PRC	June 11, 2010

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Name of Patent	Application No.	Type of Patent	Name of Applicant	Place on Application	Date of Application
End hose device, truck-mounted concrete pump and pipeline delivery device (末端軟管裝置、混凝土泵車及管道輸送裝置)	201020227458.8	Utility patent	the Company	PRC	June 11, 2010
Engineering machinery and stirring device thereof (工程機械及其攪拌裝置)	201020599808.3	Utility patent	the Company	PRC	November 9, 2010
A type of spring propulsion revolving drum (一種彈簧驅動式轉筒)	201020221368.8	Utility patent	the Company	PRC	June 10, 2010
Engineering equipment with supporting leg and supporting leg full extension testing device (具有支撐支腿的工程設備和支腿全伸狀態檢測裝置)	201020577077.2	Utility patent	Sany Automobile Hoisting Machinery Co., Ltd.	PRC	October 25, 2010
Sealing member retainer ring and cylinder with the same (密封件擋圈及具有該密封件擋圈的油缸)	201020273792.7	Utility patent	the Company	PRC	July 29, 2010
Grader worm gear case and grader with the same (平地機蝸輪箱及其平地機)	201020641831.5	Utility patent	the Company	PRC	November 19, 2010
Clutch booster (離合器助力器)	201020643494.2	Utility patent	the Company	PRC	December 6, 2010
Additive metering and adding apparatus for concrete mixer (用於混凝土攪拌運輸車的外加劑計量及添加裝置)	201020644577.3	Utility patent	the Company	PRC	December 7, 2010
Crawler type counterweight trolley electrical control device and control method thereof (履帶式配重小車的電氣控制裝置及其控制方法)	201010155200.6	Invention patent	Shanghai Sany Technology	PRC	April 22, 2010
A type of free rotary buffering brake hydraulic system and method of crawler crane (一種用於履帶起重機的自由回轉緩衝制動液壓系統及方法)	201010181667.8	Invention patent	Shanghai Sany Technology	PRC	May 21, 2010
A type of crane jib with multiple chords (一種起重機多弦杆臂架)	201010181662.5	Invention patent	Shanghai Sany Technology	PRC	May 21, 2010
A type of simplified proportionate load-sensitive hydraulic system (一種簡易的比例負載敏感液壓系統)	201010183209.8	Invention patent	Shanghai Sany Technology	PRC	May 24, 2010
A-shaped boom rear rod folding guiding device (A型架後拉杆折疊導向裝置)	201010192639.6	Invention patent	Shanghai Sany Technology	PRC	June 4, 2010
Large pin roll disassembly and assembly and transportation device for crawler crane (履帶起重機大型銷軸拆裝和運輸裝置)	201010192627.3	Invention patent	Shanghai Sany Technology	PRC	June 4, 2010
A type of A-shaped rack folding drawing plate device (一種起重機A型架折疊拉板裝置)	201010192605.7	Invention patent	Shanghai Sany Technology	PRC	June 4, 2010

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Name of Patent	Application No.	Type of Patent	Name of Applicant	Place on Application	Date of Application
Driver's cab interior (駕駛室內飾)	201030574312.6	Design patent	Shanghai Sany Technology	PRC	October 23, 2010
Driver's cab interior (駕駛室內飾)	201030574321.5	Design patent	Shanghai Sany Technology	PRC	October 23, 2010
Driver's cab interior (駕駛室內飾)	201030574314.5	Design patent	Shanghai Sany Technology	PRC	October 23, 2010
Driver's cab interior (駕駛室內飾)	201030574313.0	Design patent	Shanghai Sany Technology	PRC	October 23, 2010
A type of hydraulic-digger obstruction-avoiding control system and method (一種液壓挖掘機避障控制系統和方法)	200710022775.9	Invention patent	Sany Heavy Machinery	PRC	May 29, 2007
A type of control method and control device for hydraulic excavator bucket motion (一種液壓挖掘機鏟斗運動的控制方法及控制裝置)	200910028323.0	Invention patent	Sany Heavy Machinery	PRC	January 8, 2009
A type of method for improving excavator operation comfortableness and device thereof (一種改善挖掘機操作舒適性的方法及其裝置)	200910182318.5	Invention patent	Sany Heavy Machinery	PRC	July 8, 2009
A type of double-machine redundancy control method and device thereof (一種雙機冗餘控制方法及其控制裝置)	200910212061.3	Invention patent	Sany Heavy Machinery	PRC	November 2, 2009
A type of pressure control method for excavator actuating mechanism and control loop thereof (一種挖掘機執行機構的壓力控制方法及其控制回路)	200910264955.7	Invention patent	Sany Heavy Machinery	PRC	December 17, 2009
A type of excavator start control method and device thereof (一種挖掘機啟動控制方法及其裝置)	200910264954.2	Invention patent	Sany Heavy Machinery	PRC	December 17, 2009
A type of back pressure control method for hydraulic excavator (一種液壓挖掘機背壓控制方法)	201010118041.2	Invention patent	Sany Heavy Machinery	PRC	February 25, 2010
Electrohydraulic hybrid driving system for engineering machinery (用於工程機械的液電混合驅動系統)	201010147247.8	Invention patent	Shanghai Sany Heavy Machinery	PRC	April 2, 2010
A type of hybrid power mechanism for engineering machinery (一種用於工程機械的混合動力機構)	201010158932.0	Invention patent	Shanghai Sany Heavy Machinery	PRC	April 19, 2010
Excavator power control system and method (挖掘機功率控制系統和方法)	201010158942.4	Invention patent	Sany Heavy Machinery	PRC	April 19, 2010
Hydraulic control pipeline for excavator (挖掘機的液壓控制管路)	201010169523.0	Invention patent	Sany Heavy Machinery	PRC	May 12, 2010
Connector between bucket and rod (鏟斗與斗杆的連接機構)	201010166460.3	Invention patent	Sany Heavy Machinery	PRC	April 26, 2010
A type of telescopic chassis structure for rotary drilling rig (一種用於旋挖鑽的可伸縮底盤結構)	201010178524.1	Invention patent	Sany Heavy Machinery	PRC	May 21, 2010

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Name of Patent	Application No.	Type of Patent	Name of Applicant	Place on Application	Date of Application
A type of hybrid power excavator DC/DC control and drive circuit (一種混合動力挖機DC/DC控制及驅動電路)	201010203993.4	Invention patent	Sany Heavy Machinery	PRC	June 21, 2010
A type of walking speed reducer for hydraulic excavator (一種液壓挖掘機行走減速機)	201010203990.0	Invention patent	Sany Heavy Machinery	PRC	June 21, 2010
An intelligent control method for hydraulic excavator (一種液壓挖掘機的智能控制方法)	201010205181.3	Invention patent	Sany Heavy Machinery	PRC	June 22, 2010
A type of security alarm control system and method for excavator fuel system (一種用於挖掘機燃油系統的報警控制系統及方法)	201010209232.X	Invention patent	Shanghai Sany Heavy Machinery	PRC	June 25, 2010
A type of tail gas monitoring and processing method and device for excavator (一種用於挖掘機的尾氣監控處理方法及裝置)	201010214258.3	Invention patent	Shanghai Sany Heavy Machinery	PRC	June 30, 2010
Automatic embedded software testing system and method thereof (嵌入式軟件自動測試系統及其方法)	201010214475.2	Invention patent	Sany Heavy Machinery	PRC	June 30, 2010
Remote excavator failure diagnosis method (挖機遠程診斷故障方法)	201010214488.X	Invention patent	Sany Heavy Machinery	PRC	June 30, 2010
Engine cooling air modulating method and device (發動機的冷卻風量調節方法及裝置)	201010214273.8	Invention patent	Sany Heavy Machinery	PRC	June 30, 2010
A type of control method and device for lowering excavator starting load (一種降低挖掘機啟動負載的控制方法及裝置)	201010239609.6	Invention patent	Sany Heavy Machinery	PRC	July 29, 2010
A type of hydraulic system preheating structure (一種液壓系統的預熱結構)	201010239592.4	Invention patent	Sany Heavy Machinery	PRC	July 29, 2010
Oil-water separator (油水分離器)	201010284163.9	Invention patent	Sany Heavy Machinery	PRC	September 17, 2010
A type of automatic hydraulic oil temperature control oil returning system for excavator (一種用於挖掘機的自動控制液壓油溫的回油系統)	201010296099.6	Invention patent	Sany Heavy Machinery	PRC	September 29, 2010
A type of telescopic chassis structure for excavator (一種用於挖掘機的可伸縮底盤結構)	201010296094.3	Invention patent	Sany Heavy Machinery	PRC	September 29, 2010
A type of large excavator counterweight bolt loosening prevention and fastening structure and fastening method thereof (一種大型挖掘機配重螺栓防鬆緊固結構及其緊固方法)	201010288287.4	Invention patent	Sany Heavy Machinery	PRC	September 21, 2010

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Name of Patent	Application No.	Type of Patent	Name of Applicant	Place on Application	Date of Application
A type of self-lubricating bearing for excavator movable arm (一種用於挖掘機動臂的自潤滑軸承)	201010508455.6	Invention patent	Sany Heavy Machinery	PRC	October 15, 2010
A type of fuel filter (一種燃油濾清器)	201010528514.6	Invention patent	Sany Heavy Machinery	PRC	November 2, 2010
A type of intelligent voltage boosting control method and device (一種智能升壓控制方法及裝置)	201010298750.3	Invention patent	Sany Heavy Machinery	PRC	September 30, 2010
A type of counterweight building method for excavator (一種用於挖掘機的配重製造方法)	201010522307.X	Invention patent	Sany Heavy Machinery	PRC	October 28, 2010
A type of hydraulic excavator flow control method and control loop (一種液壓挖掘機流量控制方法及控制回路)	201010529181.9	Invention patent	Sany Heavy Machinery	PRC	November 3, 2010
Rotary oil supply loop system for hydraulic excavator (用於液壓挖掘機的回轉補油回路系統)	201010537297.7	Invention patent	Sany Heavy Machinery	PRC	November 10, 2010
A type of control method for lowering excavator movable arm (一種用於挖掘機動臂下降的控制方法)	201010572623.8	Invention patent	Sany Heavy Machinery	PRC	December 3, 2010
A type of high altitude and power matching control method for excavator (一種挖掘機高海拔功率匹配控制方法)	201010572624.2	Invention patent	Sany Heavy Machinery	PRC	December 3, 2010
A type of intelligent control method for improving excavator performance (一種提高挖掘機效率的智能控制方法)	201010555576.6	Invention patent	Sany Heavy Machinery	PRC	November 23, 2010
Communication system for underground machinery equipment (用於井下機械設備的通訊系統)	201010574848.7	Invention patent	Sany Heavy Machinery	PRC	December 6, 2010
A type of excavator hybrid power regeneration control method and device (一種挖掘機的混合動力再生控制方法及裝置)	201010557355.2	Invention patent	Sany Heavy Machinery	PRC	November 24, 2010
A type of excavator over temperature protection method (一種挖掘機過熱保護方法)	201010581062.8	Invention patent	Sany Heavy Machinery	PRC	December 9, 2010
A type of crawler-plate telescopic mechanism (一種履帶式底盤伸縮機構)	201010574847.2	Invention patent	Sany Heavy Machinery	PRC	December 6, 2010
A type of test bed for hydraulic excavator valve (一種用於液壓挖掘機泵閥的試驗台架)	201010577072.4	Invention patent	Sany Heavy Machinery	PRC	December 7, 2010
A type of hydraulic excavator loop extension control method and device (一種挖掘機液壓回路的擴展控制方法及裝置)	201010581063.2	Invention patent	Sany Heavy Machinery	PRC	December 9, 2010
A type of automatic control system and control method for excavator working unit (一種挖掘機工作裝置的自動控制系統及控制方法)	201010581065.1	Invention patent	Sany Heavy Machinery	PRC	December 9, 2010

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Name of Patent	Application No.	Type of Patent	Name of Applicant	Place on Application	Date of Application
A type of display device used for engineering machinery (一種用於工程機械的顯示裝置)	201020527761.X	Utility patent	Sany Heavy Machinery	PRC	September 14, 2010
A type of excavator travelling device (一種挖掘機的行走裝置)	201020549701.8	Utility patent	Sany Heavy Machinery	PRC	September 30, 2010
A type of fixing structure used for hydraulic excavator shovel (一種用於挖掘機鏟鬥的固定結構)	201020547300.9	Utility patent	Sany Heavy Machinery	PRC	September 29, 2010
Industrial remote controller (工業遙控器)	201030171775.8	Design patent	Sany Heavy Machinery	PRC	May 19, 2010
Electrocontrol box (電控箱)	201030171781.3	Design patent	Sany Heavy Machinery	PRC	May 19, 2010
Label (SY215C9) (標貼(SY215C9))	201030174386.0	Design patent	Sany Heavy Machinery	PRC	May 21, 2010
Excavator counterweight (挖掘機配重)	201030214286.6	Design patent	Sany Heavy Machinery	PRC	June 23, 2010
Excavator tool box (挖掘機工具箱)	201030214314.4	Design patent	Sany Heavy Machinery	PRC	June 23, 2010
Excavator cover (split type) (挖掘機機頂罩(分體式))	201030286584.6	Design patent	Sany Heavy Machinery	PRC	August 25, 2010
Detector used for industrial remote control device (用於工業遙控設備的檢測器)	201030286579.5	Design patent	Sany Heavy Machinery	PRC	August 25, 2010
barrel type drilling tool (筒式鑽具)	200810118804.6	Invention patent	Beijing Sany Heavy Machinery	PRC	August 22, 2008
Advance reinforcing size-sealing device and overflow device thereof (超前加固封漿裝置溢流器及超前加固封漿裝置)	200810223053.4	Invention patent	Beijing Sany Heavy Machinery	PRC	September 26, 2008
A type of expandable caterpillar band underpan and caterpillar band type engineering machine with the underpan (一種可伸縮式履帶底盤及帶有該底盤的履帶式工程機械)	200810227102.1	Invention patent	Beijing Sany Heavy Machinery	PRC	November 21, 2008
Downhole drill and shock absorber thereof (潛孔鑽機及其減振器)	200910087837.3	Invention patent	Beijing Sany Heavy Machinery	PRC	June 24, 2009
Boring machine and clamp thereof (鏜床及鏜床夾具)	200910089153.7	Invention patent	Beijing Sany Heavy Machinery	PRC	July 31, 2009
Engineering machinery and mast support thereof (工程機械及其桅杆支座)	200910089961.3	Invention patent	Beijing Sany Heavy Machinery	PRC	July 30, 2009
A type of rotary drilling rigs and drilling device thereof (一種旋挖鑽機及其鑽進裝置)	200910089962.8	Invention patent	Beijing Sany Heavy Machinery	PRC	July 30, 2009
Engineering machinery and locking mechanism thereof (工程機械及其鎖緊機構)	200910090150.5	Invention patent	Beijing Sany Heavy Machinery	PRC	July 29, 2009

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Name of Patent	Application No.	Type of Patent	Name of Applicant	Place on Application	Date of Application
A type of accumulating punching and grabbing technology method (一種蓄能沖抓技術方法)	200910092015.4	Invention patent	Beijing Sany Heavy Machinery	PRC	September 4, 2009
A type of method for welding spiced rack segments on both sides of mast of drill and tool thereof (一種將拼接齒條段焊接於鑽機桅杆兩側的方法及其工裝)	200910158765.7	Invention patent	Beijing Sany Heavy Machinery	PRC	June 30, 2009
Downhole drill and shock absorber thereof (潛孔鑽機及其減振器)	200910093677.3	Invention patent	Beijing Sany Heavy Machinery	PRC	September 27, 2009
A type of sequential wall grappling bucket grooving machine (一種連續牆抓斗成槽機)	200910093448.1	Invention patent	Beijing Sany Heavy Machinery	PRC	September 21, 2009
A type of rotary drilling rig hoist retraction control system and rotary drilling rig (一種旋挖鑽機主卷揚收放控制系統及旋挖鑽機)	200910237826.9	Invention patent	Beijing Sany Heavy Machinery	PRC	November 11, 2009
Test bench and testing method (試驗台與測試方法)	200910093445.8	Invention patent	Beijing Sany Heavy Machinery	PRC	September 21, 2009
A type of hydraulic system and rotary drilling rig comprising the same (一種液壓系統及包括該液壓系統的旋挖鑽機)	200910237827.3	Invention patent	Beijing Sany Heavy Machinery	PRC	November 11, 2009
A type of rock drilling machine and its control system and method (一種入岩鑽機及其控制系統和控制方法)	201010115470.4	Invention patent	Beijing Sany Heavy Machinery	PRC	February 26, 2010
A type of piling machinery and bucket gate thereof (一種樁工機械及其斗門裝置)	201010139591.2	Invention patent	Beijing Sany Heavy Machinery	PRC	March 31, 2010
Slender rod support (細長杆件的支撐裝置)	201010138777.6	Invention patent	Beijing Sany Heavy Machinery	PRC	March 31, 2010
Supporting device (支撐裝置)	201010138868.X	Invention patent	Beijing Sany Heavy Machinery	PRC	March 31, 2010
Supporting mechanism (支撐機構)	201010138855.2	Invention patent	Beijing Sany Heavy Machinery	PRC	March 31, 2010
Slender rod puller (細長杆件拉出機構)	201010138767.2	Invention patent	Beijing Sany Heavy Machinery	PRC	March 31, 2010
Swing ring (回轉圈)	201010138866.0	Invention patent	Beijing Sany Heavy Machinery	PRC	March 31, 2010
Slender rod testing device (用於細長杆的試驗檢測裝置)	201010138881.5	Invention patent	Beijing Sany Heavy Machinery	PRC	March 31, 2010

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Name of Patent	Application No.	Type of Patent	Name of Applicant	Place on Application	Date of Application
Slender rod testing device (用於細長杆件的試驗檢測裝置)	201010138768.7	Invention patent	Beijing Sany Heavy Machinery	PRC	March 31, 2010
Shock-absorbing pin roll component (減震銷軸組件)	200810102250.0	Invention patent	Beijing Sany Heavy Machinery	PRC	March 19, 2008
Automatic relief arrangement (自動卸荷裝置)	200810103515.9	Invention patent	Beijing Sany Heavy Machinery	PRC	April 7, 2008
Automatic assembling and disassembling system for drill rod (鑽杆自動裝卸系統)	200810104427.0	Invention patent	Beijing Sany Heavy Machinery	PRC	April 18, 2008
Two-way rotary worktable for drill rod platform (用於鑽杆平台的雙向旋轉工作台)	200910086731.1	Invention patent	Beijing Sany Heavy Machinery	PRC	June 24, 2009
New spiral drill rod (新型螺旋鑽杆)	200910091858.2	Invention patent	Beijing Sany Heavy Machinery	PRC	August 27, 2009
Support for drilling machine (鑽機支承裝置)	200910093053.1	Invention patent	Beijing Sany Heavy Machinery	PRC	September 22, 2009
A type of reverse-circulating drilling machine and gripper thereof (一種反循環鑽機及其夾持器)	200910244581.2	Invention patent	Beijing Sany Heavy Machinery	PRC	December 31, 2009
A type of supporting device (一種支撐裝置)	201010198479.6	Invention patent	Beijing Sany Heavy Machinery	PRC	June 4, 2010
A type of mud grouting method and system for shield tunneling machine (一種盾構機的注漿控制方法與系統)	201010201607.8	Invention patent	Beijing Sany Heavy Machinery	PRC	June 9, 2010
A type of synchronous control system and engineering machinery (一種同步驅動控制系統及工程機械)	201010201621.8	Invention patent	Beijing Sany Heavy Machinery	PRC	June 9, 2010
A type of shield tunneling machine hinging system and control method therefor (一種盾構機鉸接系統及其控制方法)	201010208629.7	Invention patent	Beijing Sany Heavy Machinery	PRC	June 13, 2010
A type of liquid level measurer for mortar box or mud box (一種用於砂漿箱或泥漿箱的液位測量器)	201010208636.7	Invention patent	Beijing Sany Heavy Machinery	PRC	June 13, 2010
Diaphragm wall grab bucket and grab bucket device thereof (地下連續牆抓斗及其抓斗裝置)	201010203832.5	Invention patent	Beijing Sany Heavy Machinery	PRC	June 18, 2010
Continuous wall multi-axis drilling machine and grouting joint device thereof (連續牆多軸鑽機及其注漿接頭裝置)	201010203808.1	Invention patent	Beijing Sany Heavy Machinery	PRC	June 21, 2010
Method for controlling motion of mast oil cylinder of rotary drilling rig and system (旋挖鑽機桅杆油缸運動控制方法及系統)	201010213695.3	Invention patent	Beijing Sany Heavy Machinery	PRC	June 21, 2010

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Name of Patent	Application No.	Type of Patent	Name of Applicant	Place on Application	Date of Application
Rotary drilling rig and depth finder thereof (旋挖鑽機及其測深裝置)	201010213712.3	Invention patent	Beijing Sany Heavy Machinery	PRC	June 21, 2010
A type of shield tunneling machine cutter disk driving system control device (一種盾構機刀盤驅動系統控制裝置)	201010217064.9	Invention patent	Beijing Sany Heavy Machinery	PRC	June 23, 2010
Rotary drilling rig voltage-applying method and system (旋挖鑽機加壓控制方法及系統)	201010209519.2	Invention patent	Beijing Sany Heavy Machinery	PRC	June 25, 2010
Rotary drilling rig lifting control method and system (旋挖鑽機起拔控制方法及系統)	201010209505.0	Invention patent	Beijing Sany Heavy Machinery	PRC	June 25, 2010
Guiding device for rotary drilling rig and steel rope thereof (旋挖鑽機及其鋼絲繩導向裝置)	201010221028.X	Invention patent	Beijing Sany Heavy Machinery	PRC	June 28, 2010
A type of lifting mechanism and rotary drilling rig (一種提升機構及旋挖鑽機)	201010262162.4	Invention patent	Beijing Sany Heavy Machinery	PRC	August 24, 2010
Rotary drilling rig and following rack thereof (旋挖鑽機及其隨動架結構)	201010269556.2	Invention patent	Beijing Sany Heavy Machinery	PRC	August 31, 2010
Rotary drilling rig and power head transmission device thereof (旋挖鑽機及其動力頭傳動裝置)	201010273119.8	Invention patent	Beijing Sany Heavy Machinery	PRC	September 3, 2010
A type of buffering device (一種緩衝裝置)	201010500376.0	Invention patent	Beijing Sany Heavy Machinery	PRC	September 29, 2010
Rotary drilling rig and elevator thereof (旋挖鑽機及其提引器)	201010501675.6	Invention patent	Beijing Sany Heavy Machinery	PRC	September 30, 2010
A type of pipe pull-proof alarm device (一種管綫防拉報警裝置)	201010548493.4	Invention patent	Beijing Sany Heavy Machinery	PRC	November 17, 2010
A type of rotary drilling rig and drill rod assembly thereof (一種旋挖鑽機及其鑽杆總成)	201010560226.9	Invention patent	Beijing Sany Heavy Machinery	PRC	November 25, 2010
Crawler type engineering machinery and crawler type supporting leg device thereof (履帶式工程機械及其履帶式支腿裝置)	201010580799.8	Invention patent	Beijing Sany Heavy Machinery	PRC	December 9, 2010
A type of piling machine and drilling bucket thereof (一種樁工機械及其鑽斗)	201010586118.9	Invention patent	Beijing Sany Heavy Machinery	PRC	December 13, 2010
Depth finder and engineering machinery with the same (測深裝置及具有該測深裝置的工程機械)	201020622553.8	Utility patent	Beijing Sany Heavy Machinery	PRC	November 23, 2010
Crawler type engineering machinery and crawler type supporting leg device thereof (履帶式工程機械及其履帶式支腿裝置)	201010580799.8	Invention patent	Beijing Sany Heavy Machinery	PRC	December 9, 2010

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Name of Patent	Application No.	Type of Patent	Name of Applicant	Place on Application	Date of Application
A type of crane stringer rate acquisition method, system and crane (一種起重機吊繩倍率獲取方法、系統及起重機)	200810177095.9	Invention patent	Sany Automobile Manufacturing	PRC	November 21, 2008
M-type mechanical reversal valve (M型機能換向閥)	201110093938.9	Invention patent	the Company	PRC	April 14, 2011
Amplitude adjustable vibration exciter and amplitude modulation components (調幅激振機構和調幅組件)	201110071123.0	Invention patent	the Company	PRC	March 23, 2011
Full hydraulic gift box control system and road roller with the same (全液壓禮盒控制系統和包含該系統的壓路機)	201110044046.X	Invention patent	the Company	PRC	February 23, 2011
Building machinery climbing device and climbing ways, guide base and placing boom thereof (建築機械爬升裝置及其爬升辦法、導向座和布料杆)	201110040169.6	Invention patent	the Company	PRC	February 17, 2011
A type of movable machinery equipment and working ladder thereof (一種可移動式機械設備及其工作梯)	201110042011.2	Invention patent	the Company	PRC	February 17, 2011
Method for manufacture piston rod (活塞杆的製作方法)	201110033340.0	Invention patent	the Company	PRC	January 30, 2011
Engineering machinery and window lock apparatus thereof (工程機械及其車窗鎖裝置)	201110063482.1	Invention patent	the Company	PRC	March 16, 2011
A type of caterpillar tread inducing quenching process for crawler crane and device thereof (一種履帶式起重機的履帶板的感應淬火方法及裝置)	201110095556.X	Invention patent	the Company	PRC	April 15, 2011
Method for detecting fault of oil temperature sensor and detection system thereof (一種油位傳感器故障的檢測方法及檢測系統)	201110070650.X	Invention patent	the Company	PRC	March 23, 2011
Buffer hydraulic cylinder and control method thereof and engineering machinery (緩衝液壓缸及其控制方法、工程機械)	201110070738.1	Invention patent	the Company	PRC	March 23, 2011
Road roller and its auxiliary positioning method by welt compaction (壓路機和壓路機的貼邊壓實輔助定位方法)	201010538403.3	Invention patent	the Company	PRC	November 9, 2010
Method for controlling engineering machinery power-shift and device and control system thereof (工程機械換擋的控制方法、裝置和控制系統)	201110117904.9	Invention patent	the Company	PRC	May 6, 2011
Abrasion proof material, wear resistant piece and manufacture method thereof (耐磨材料、耐磨件及其製作方法)	201110114433.6	Invention patent	the Company	PRC	May 4, 2011

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Name of Patent	Application No.	Type of Patent	Name of Applicant	Place on Application	Date of Application
Power shift control method, control device and grader with the same (換擋控制方法、控制裝置及具有該控制裝置的平地機)	201110114578.6	Invention patent	the Company	PRC	May 4, 2011
Wireless network control method and system for asphalt batching plant (瀝青攪拌站無線網絡控制方法和系統)	201110114429.X	Invention patent	the Company	PRC	May 4, 2011
A type of hydraulic cylinder, hydraulic buffering system, excavator and truck-mounted concrete pump (一種液壓油缸及液壓緩衝系統、挖掘機和混凝土泵車)	201110102731.3	Invention patent	the Company	PRC	July 23, 2010
A type of hydraulic cylinder and related device, hydraulic buffering system, excavator and truck-mounted concrete pump (一種液壓油缸及其相關裝置、及液壓緩衝系統、挖掘機和混凝土泵車)	201110103001.5	Invention patent	the Company	PRC	July 23, 2010
A type of hydraulic cylinder, hydraulic buffering system, excavator and truck-mounted concrete pump (一種液壓油缸及液壓緩衝系統、挖掘機和混凝土泵車)	201110102763.3	Invention patent	the Company	PRC	July 23, 2010
A type of hydraulic cylinder and related device, hydraulic buffering system, excavator and truck-mounted concrete pump (一種液壓油缸及其相關裝置、及液壓緩衝系統、挖掘機和混凝土泵車)	201110103018.0	Invention patent	the Company	PRC	July 23, 2010
A type of hydraulic cylinder, hydraulic buffering system, excavator and truck-mounted concrete pump (一種液壓油缸及液壓緩衝系統、挖掘機和混凝土泵車)	201110103017.6	Invention patent	the Company	PRC	July 23, 2010
A type of hydraulic cylinder, hydraulic buffering system, excavator and truck-mounted concrete pump (一種液壓油缸及液壓緩衝系統、挖掘機和混凝土泵車)	201110102717.3	Invention patent	the Company	PRC	July 23, 2010
A type of pumping mechanism and its distributing valve and concrete pumping machinery (一種泵送機構及其分配閥和混凝土泵送機械)	201110103005.3	Invention patent	the Company	PRC	April 22, 2011
A type of mechanical arm bionic control method and control system (一種機械臂仿生控制方法及控制系統)	201110102757.8	Invention patent	the Company	PRC	April 22, 2011
Pumping system and distributing valve thereof and concrete delivery machinery (泵送系統及其分配閥、混凝土輸送機械)	201110098562.0	Invention patent	the Company	PRC	April 19, 2011

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Name of Patent	Application No.	Type of Patent	Name of Applicant	Place on Application	Date of Application
A type of building machinery climbing device and placing boom (一種建築機械的爬升裝置和布料杆)	201110098573.9	Invention patent	the Company	PRC	April 19, 2011
A type of hydraulic cylinder and related device, hydraulic buffering system, excavator and truck-mounted concrete pump (一種液壓油缸及其相關裝置、及液壓緩衝系統、挖掘機和混凝土泵車)	201110102739.X	Invention patent	the Company	PRC	July 23, 2010
A type of mobile pumping machinery (一種移動式泵送機械)	201110117219.6	Invention patent	the Company	PRC	May 6, 2011
A type of pollutant discharging device for hydraulic system (一種液壓系統排污裝置)	201110116734.2	Invention patent	the Company	PRC	May 6, 2011
High-low pressure switching control system, concrete pumping system and equipment (高低壓切換控制系統、混凝土泵送系統及設備)	201110111743.4	Invention patent	the Company	PRC	May 3, 2011
A type of hydraulic cylinder and buffering device thereof (一種液壓缸及其緩衝裝置)	201110107413.6	Invention patent	the Company	PRC	April 27, 2011
A type of aggregates elevator and batching plant with the same (一種攪拌站骨料提升裝置及包括其的攪拌站)	201120042921.6	Utility patent	the Company	PRC	February 21, 2011
Engineering machinery and hydraulic cylinder piston rod water proof device thereof (工程機械及其液壓缸活塞杆防水裝置)	201120066333.6	Utility patent	the Company	PRC	March 15, 2011
Safety protector for elevator (提升機安全保護裝置)	201120072125.7	Utility patent	the Company	PRC	March 18, 2011
Driver's cab suspension type slippage door and engineering machinery (工程機械駕駛室用懸掛式滑移門及工程機械)	201120071645.6	Utility patent	the Company	PRC	March 18, 2011
Over-load protector used for grader turning ring worm gear case (用于平地機回轉圈蝸輪箱的過載保護裝置)	201120064871.1	Utility patent	the Company	PRC	March 14, 2011
A type of auxiliary braking system for full hydraulic travel machine (一種全液壓行走機械的輔助制動控制系統)	201120048093.7	Utility patent	the Company	PRC	February 25, 2011
A type of concrete pumping equipment and discharge port thereof (一種混凝土泵送設備及其出料口)	201120093268.6	Utility patent	the Company	PRC	March 31, 2011
A type of truck mixer and stirring drum operation mechanism thereof (一種攪拌運輸車及其攪拌筒操縱機構)	201120042907.6	Utility patent	the Company	PRC	February 21, 2011

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Name of Patent	Application No.	Type of Patent	Name of Applicant	Place on Application	Date of Application
Building machinery climbing device, guide base and placing boom thereof (建築機械爬升裝置及其導向座和布料杆)	201120040930.1	Utility patent	the Company	PRC	February 17, 2011
A type of movable machinery equipment and working ladder thereof (一種可移動式機械設備及其工作梯)	201120042231.0	Utility patent	the Company	PRC	February 17, 2011
A type of concrete pumping apparatus and high-low pressure conical pipe thereof (一種混凝土泵送設備及其高低壓錐管)	201120040919.5	Utility patent	the Company	PRC	February 17, 2011
A type of concrete pumping apparatus and high-low pressure conical pipe thereof (一種混凝土泵送設備及其高低壓錐管)	201120054050.X	Utility patent	the Company	PRC	March 3, 2011
M-type mechanical reversal valve (M型機能換向閥)	201120109761.2	Utility patent	the Company	PRC	April 14, 2011
A type of engineering machinery and lifting device thereof (一種工程機械及其舉升裝置)	201120080796.8	Utility patent	the Company	PRC	March 24, 2011
A type of belt conveyer and driving mechanism thereof (一種皮帶輸送機及其驅動機構)	201120081002.X	Utility patent	the Company	PRC	March 24, 2011
A type of concrete delivering system and conical pipe apparatus thereof (一種混凝土輸送系統及其錐管裝置)	201120083995.4	Utility patent	the Company	PRC	March 25, 2011
A type of engineering machinery and supporting leg thereof (一種工程機械及其支腿裝置)	201120076589.5	Utility patent	the Company	PRC	March 22, 2011
Engineering machinery and window lock apparatus thereof (工程機械及其車窗鎖裝置)	201120070019.5	Utility patent	the Company	PRC	March 16, 2011
Rotary isolation-proof striker plate for paver and paver with the same (攤鋪機螺旋防離析擋料板及其攤鋪機)	201120086856.7	Utility patent	the Company	PRC	March 29, 2011
Automobile driver's cab floor skeleton, automobile driver's cab therewith and automobile therewith (汽車駕駛室地板骨架、汽車駕駛室及汽車)	201120085169.3	Utility patent	the Company	PRC	March 28, 2011
Construction platform for connecting middle-section silo helix and conical-section silo helix of powder pot (粉料罐中節筒倉與錐節筒倉連接用施工平臺)	201120084568.8	Utility patent	the Company	PRC	March 28, 2011
Special pipe for driver's cab skeleton structure, engineering machinery driver's cab therewith and engineering machinery therewith (駕駛室骨架結構異型管材、工程機械駕駛室及工程機械)	201120091562.3	Utility patent	the Company	PRC	March 31, 2011

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Name of Patent	Application No.	Type of Patent	Name of Applicant	Place on Application	Date of Application
M-type mechanical reversal valve (M型機能換向閥)	201120063142.4	Utility patent	the Company	PRC	March 10, 2011
Wear resistant spectacles plate and wear resistant cutting ring (耐磨眼睛板和耐磨切割環)	201120138205.8	Utility patent	the Company	PRC	May 4, 2011
A type of hydraulic cylinder and buffering device thereof (一種液壓缸及其緩衝裝置)	201120129260.0	Utility patent	the Company	PRC	April 27, 2011
A type of lifting device and placing boom for engineering machinery (一種建築機械的爬升裝置和布料杆)	201120116328.1	Utility patent	the Company	PRC	April 19, 2011
A type of delivery machinery, conveying bent pipe group and conveying bent pipe (一種輸送機械、輸送彎管組及輸送彎管)	201120118261.5	Utility patent	the Company	PRC	April 19, 2011
A type of concentricity measuring system and concrete pumping system (一種同軸度檢測系統及混凝土泵送系統)	201120165946.5	Utility patent	the Company	PRC	May 23, 2011
A type of motor vehicle and refrigerator casting thereof (一種機動車及其蒸發器殼體)	201120164033.1	Utility patent	the Company	PRC	May 20, 2011
Engineering machinery and power transmission switching device thereof (工程機械及其動力傳遞切換裝置)	201120166423.2	Utility patent	the Company	PRC	May 23, 2011
type of hydraulic cylinder and buffering device thereof (一種液壓缸及其緩衝裝置)	201120129246.0	Utility patent	the Company	PRC	April 27, 2011
A type of supporting leg device and engineering machinery therewith (一種支腿裝置及工程機械)	201120147005.9	Utility patent	the Company	PRC	May 10, 2011
A type of mobile pumping machinery (一種移動式泵送機械)	201120142701.0	Utility patent	the Company	PRC	May 6, 2011
A type of pollutant discharging device with hydraulic system (一種液壓系統排污裝置)	201120141821.9	Utility patent	the Company	PRC	May 6, 2011
Pumping mechanism and pulse vibration absorbing device thereof and concrete pumping machinery therewith (泵送機構及其脈衝振動吸收裝置、混凝土泵送機械)	201120143176.4	Utility patent	the Company	PRC	May 6, 2011
A type of concrete pumping system and gate valve thereof (一種混凝土泵送系統及其閘板閥)	201120138162.3	Utility patent	the Company	PRC	May 4, 2011
Accessories packaging box (配件包裝盒)	201130045456.7	Design patent	the Company	PRC	March 16, 2011
Two-gear variable speed bridge (兩檔變速橋)	201130096396.1	Design patent	the Company	PRC	April 28, 2011
GPS locator (SYMT-II) (GPS定位儀 (SYMT-II))	201130086296.0	Design patent	the Company	PRC	April 22, 2011

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Name of Patent	Application No.	Type of Patent	Name of Applicant	Place on Application	Date of Application
A type of lubricant used for low-speed heavy-loaded purpose (一種低速重載用潤滑脂)	201010534564.5	Invention patent	the Sany Automobile Hoisting Machinery Co., Ltd.ny	PRC	November 5, 2010
Hydraulic guide control system and hydraulic guide crane therewith (液壓先導控制系統及設有該系統的液壓先導起重機)	201110121407.6	Invention patent	the Sany Automobile Hoisting Machinery Co., Ltd.ny	PRC	May 11, 2011
A type of power take-off device for crane and crane with the same (一種起重機取力裝置及起重機)	201110118675.2	Invention patent	the Sany Automobile Hoisting Machinery Co., Ltd.ny	PRC	May 9, 2011
Pulling wire fixing device for telescopic jib and jib length sensor of crane (起重機伸縮臂和臂長感測器的拉線固定裝置)	201120098276.X	Utility patent	the Sany Automobile Hoisting Machinery Co., Ltd.ny	PRC	April 6, 2011
Sliding block component for telescopic jib of crane, telescopic jib of crane therewith and crane therewith (起重機伸縮臂的滑塊組件、起重機伸縮臂、起重機)	201020593195.2	Utility patent	the Sany Automobile Hoisting Machinery Co., Ltd.ny	PRC	November 4, 2010
Hydraulic guide control system and hydraulic guide crane therewith (液壓先導控制系統及設有該系統的液壓先導起重機)	201120148772.1	Utility patent	the Sany Automobile Hoisting Machinery Co., Ltd.ny	PRC	May 11, 2011
Crane and multi-jib telescopic mechanism thereof (起重機及其多節臂伸縮機構)	201120134424.9	Utility patent	the Sany Automobile Hoisting Machinery Co., Ltd.ny	PRC	April 29, 2011
Engineering vehicle, swing support and locking mechanism for swing support (工程車輛、擺動支腿和擺動支腿的鎖定結構)	201120161359.9	Utility patent	the Sany Automobile Hoisting Machinery Co., Ltd.ny	PRC	May 18, 2011
Torque measuring device (扭矩測量裝置)	201110121498.3	Invention patent	Beijing Sany Heavy Machinery	PRC	May 11, 2011
A type of grouting joint device and grouting machinery (一種注漿接頭裝置及注漿機械)	201110166437.9	Invention patent	Beijing Sany Heavy Machinery	PRC	June 20, 2011
Rotary drilling rig mast all-track control system and control method thereof (旋挖鑽機桅杆全軌迹控制系統及其控制方法)	201110163526.8	Invention patent	Beijing Sany Heavy Machinery	PRC	June 17, 2011

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Name of Patent	Application No.	Type of Patent	Name of Applicant	Place on Application	Date of Application
A type of centralizing device and drill rod using the same and engineering machinery (一種扶正裝置及應用其的鑽杆結構、工程機械)	201110170461.X	Invention patent	Beijing Sany Heavy Machinery	PRC	June 23, 2011
A type of rope spacing device and engineering machinery with the same (一種繩索限位元裝置及具有其的工程機械)	201110167388.0	Invention patent	Beijing Sany Heavy Machinery	PRC	June 21, 2011
A type of centralizing mechanism and drill rod using the same and engineering machinery (一種扶正機構及應用其的鑽杆結構、工程機械)	201110171783.6	Invention patent	Beijing Sany Heavy Machinery	PRC	June 23, 2011
Energy-saving hydraulic propulsion device for shield tunneling machine (盾構隧道掘進機節能液壓推進系統)	201110174588.9	Invention patent	Beijing Sany Heavy Machinery	PRC	June 24, 2011
Shield tunneling machine cutter disk driving hydraulic system (盾構刀盤驅動液壓系統)	201110172943.9	Invention patent	Beijing Sany Heavy Machinery	PRC	June 24, 2011
Supporting device for opened shield tunneling machine (敞胸式盾構的支護裝置)	201120212972.9	Utility patent	Beijing Sany Heavy Machinery	PRC	June 22, 2011
Excavation apparatus (挖掘裝置)	201110172970.6	Invention patent	Beijing Sany Heavy Machinery	PRC	June 24, 2011
Anti-clogging multi-pass joint for mud grouting (注泥漿用防堵多通接頭)	201110173010.1	Invention patent	Beijing Sany Heavy Machinery	PRC	June 24, 2011
Shield tunneling machine pipe sheet integrated lifting and trolley drawing device (盾構機管片吊運及台車牽引一體化裝置)	201110169492.3	Invention patent	Beijing Sany Heavy Machinery	PRC	June 22, 2011
Current break induction type multi-level abrasion testing cutter for shield tunneling machine (盾構機用電流斷電感應式多級磨損檢測刀具)	201110174377.5	Invention patent	Beijing Sany Heavy Machinery	PRC	June 24, 2011
Device for measuring drilling hole inclination of rotary drilling rig and method thereof (旋挖鑽機的測量鑽孔傾斜度的裝置和方法)	201110172927.X	Invention patent	Beijing Sany Heavy Machinery	PRC	June 24, 2011
Drilling hole monitoring system for rotary drilling rig and monitoring method thereof (旋挖鑽機的鑽孔監測系統及其監測方法)	201110172906.8	Invention patent	Beijing Sany Heavy Machinery	PRC	June 24, 2011
A type of supporting device and engineering machinery (一種支撐裝置及工程機械)	201120136541.9	Utility patent	Beijing Sany Heavy Machinery	PRC	May 3, 2011

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Name of Patent	Application No.	Type of Patent	Name of Applicant	Place on Application	Date of Application
A type of rotary drilling rig and drilling tools thereof (一種旋挖鑽機及其鑽具)	201120146751.6	Utility patent	Beijing Sany Heavy Machinery	PRC	May 10, 2011
A type of folding mast mechanism and rotary drilling rig (一種折疊桅杆機構及旋挖鑽機)	201120136308.0	Utility patent	Beijing Sany Heavy Machinery	PRC	May 3, 2011
Rotary drilling tools and rig (旋挖鑽具和旋挖鑽機)	201120147522.6	Utility patent	Beijing Sany Heavy Machinery	PRC	May 10, 2011
A type of drilling machinery and barrel type drilling tool thereof (一種鑽孔機械及其筒式鑽具)	201120140650.8	Utility patent	Beijing Sany Heavy Machinery	PRC	May 5, 2011
Slides track fixing device for rotary drilling rig (旋挖鑽機的滑輪架運輸固定裝置)	201120136307.6	Utility patent	Beijing Sany Heavy Machinery	PRC	May 3, 2011
A type of drilling machinery and bit structure thereof (一種鑽孔機械及其鑽頭結構)	201120226263.6	Utility patent	Beijing Sany Heavy Machinery	PRC	June 29, 2011
Wire rope traction device for rotary drilling rig (旋挖鑽機鋼絲繩牽引裝置)	201120190970.4	Utility patent	Beijing Sany Heavy Machinery	PRC	June 8, 2011
Wire rope pressurizing system for rotary drilling rig (旋挖鑽機鋼絲繩加壓系統)	201120190631.6	Utility patent	Beijing Sany Heavy Machinery	PRC	June 8, 2011
A type of drilling tools and drilling rig (一種鑽具及鑽機)	201120223794.X	Utility patent	Beijing Sany Heavy Machinery	PRC	June 29, 2011
A type of protective sleeve structure and rotary drilling rig with the same (一種護筒結構及包括該護筒結構的旋挖鑽機)	201120209851.9	Utility patent	Beijing Sany Heavy Machinery	PRC	June 21, 2011
(Same as 111-223) shield construction cutting wheel drive hydraulic system (同111-223)盾構刀盤驅動液壓系統)	201120217610.9	Utility patent	Beijing Sany Heavy Machinery	PRC	June 24, 2011
Cylinder launching speed and distance testing device for shield tunneling machine (盾構機推進油缸檢測行程和速度檢測裝置)					
Single-boot rotation proof cylinder for shield tunneling machine (盾構機單撐靴防旋轉油缸)	201120219457.3	Utility patent	Beijing Sany Heavy Machinery	PRC	June 24, 2011
Movable rod device for pulley (滑輪活動檔杆裝置)	201120217566.1	Utility patent	Beijing Sany Heavy Machinery	PRC	June 24, 2011
Movable rod device for pulley (滑輪活動檔杆裝置)	201120212681.X	Utility patent	Beijing Sany Heavy Machinery	PRC	June 22, 2011
Sliding type support for electric hoist (滑移式電卷揚支架)	201120219436.1	Utility patent	Beijing Sany Heavy Machinery	PRC	June 24, 2011

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Name of Patent	Application No.	Type of Patent	Name of Applicant	Place on Application	Date of Application
A type of pre-grouting equipment for shield tunneling machine (一種盾構機超前注漿設備)	201120218511.2	Utility patent	Beijing Sany Heavy Machinery	PRC	June 24, 2011
Unlocking bottom mechanism, drilling tools and rotary drilling rig (開鎖底機構、鑽具及旋挖鑽機)	201120227857.9	Utility patent	Beijing Sany Heavy Machinery	PRC	June 30, 2011
Rotary drilling rig (旋挖鑽機)	201130116716.5	Design patent	Beijing Sany Heavy Machinery	PRC	May 12, 2011
A new-type of hydraulic excavator pilot control system (新型液壓挖掘機先導控制系統)	201110158637.X	Invention patent	Sany Heavy Machinery	PRC	June 14, 2011
A type of excavator oil-consumption reduction control method (一種降低挖掘機發動機油耗的控制方法)	201110158630.8	Invention patent	Sany Heavy Machinery	PRC	June 14, 2011
A swaying end face type of friction wear-out testing device and method thereof (一種搖擺端面式摩擦磨損試驗裝置及方法)	201110158645.4	Invention patent	Sany Heavy Machinery	PRC	June 14, 2011
A type of excavator counterweight bolt loosening prevention and protective structure (一種挖掘機配重螺栓的防松與防護結構)	201110158639.9	Invention patent	Sany Heavy Machinery	PRC	June 14, 2011
A type of turbocharger protection method in cold area (一種寒地渦輪增壓器保護方法)	201110158608.3	Invention patent	Sany Heavy Machinery	PRC	June 14, 2011
A type of program downloading device (一種程序下載的設備)	201110158626.1	Invention patent	Sany Heavy Machinery	PRC	June 14, 2011
A type of special device for broaching oil storage tank (用於拉削油槽的專用設備)	201110158629.5	Invention patent	Sany Heavy Machinery	PRC	June 14, 2011
A type of vibration —damping control method of engine changeable damper (一種發動機可變阻尼的減振控制方法)	201110172035.X	Invention patent	Sany Heavy Machinery	PRC	June 24, 2011
A type of main pump small exhaust amount starting control circuit and control method thereof (一種主泵小排量啟動控制回路及其控制方法)	201110170458.8	Invention patent	Sany Heavy Machinery	PRC	June 23, 2011
A type of method performing turning-off function with accelerator device (一種用油門裝置實現熄火功能的方法)	201110172033.0	Invention patent	Sany Heavy Machinery	PRC	June 24, 2011
A type of super capacitor charging and discharging control method for hybrid power construction machinery (一種混合動力建築機械的超級電容充電控制方法)	201110170457.3	Invention patent	Sany Heavy Machinery	PRC	June 23, 2011
One-click system and fault diagnosis method thereof (一按通系統及其故障會診方法)	201110170460.5	Invention patent	Sany Heavy Machinery	PRC	June 23, 2011

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Name of Patent	Application No.	Type of Patent	Name of Applicant	Place on Application	Date of Application
A type of engineering machinery centralized dispatching system and dispatching method (一種工程機械叉車集中調度系統及調度方法)	201110172046.8	Invention patent	Sany Heavy Machinery	PRC	June 24, 2011
A type of excavator hydraulic system for connecting loading sensitive main valve and positive flow pump (一種搭載負載敏感主閥與正流量泵的挖掘機液壓系統)	201110170456.9	Invention patent	Shanghai Sany Heavy Machinery	PRC	June 23, 2011
A type of excavator electrical component control system and method based on CAN bus (一種基於CAN匯流排的挖掘機電氣部件的控制系統及方法)	201110170459.2	Invention patent	Shanghai Sany Heavy Machinery	PRC	June 23, 2011
A type of display screen with vibration isolation structure (一種帶有隔振結構的顯示幕)	201110190544.5	Invention patent	Sany Heavy Machinery	PRC	July 8, 2011
A type of stepper motor feedback voltage protection solution for engineering machinery (一種工程機械用步進電機回饋電壓保護方案)	201110190543.0	Invention patent	Sany Heavy Machinery	PRC	July 8, 2011
A type of security alarm device for excavator counterweight loose prevention (一種挖掘機配重防松脫報警裝置)	201120170058.2	Utility patent	Sany Heavy Machinery	PRC	May 25, 2011
A type of device capable of improving engine intake airflow (一種增加發動機進氣流量的裝置)	201120170050.6	Utility patent	Sany Heavy Machinery	PRC	May 25, 2011
A type of locking prevention device for central rotating connection (一種中央回轉接頭防呆裝置)	201120188743.8	Utility patent	Sany Heavy Machinery	PRC	June 7, 2011
A type of vibration resistant working light (一種耐震動工作燈)	201120170065.2	Utility patent	Sany Heavy Machinery	PRC	May 25, 2011
A type of inverter (一種逆變器)	201120170056.3	Utility patent	Sany Heavy Machinery	PRC	May 25, 2011
A type of double rotary horizontal main valve rotary pipelines for excavator (一種挖掘機用雙回轉臥式主閥回轉管路)	201120198946.5	Utility patent	Sany Heavy Machinery	PRC	June 14, 2011
A type of mounting bracket of monitoring equipment for large excavator (一種大型挖掘機監控設備安裝支架)	201120198927.2	Utility patent	Sany Heavy Machinery	PRC	June 14, 2011
A type of device preventing dynamometer of engine exhaust negative pressure (一種防止發動機測功機排氣負壓的裝置)	201120198930.4	Utility patent	Sany Heavy Machinery	PRC	June 14, 2011
A new type of supporting plate chain structure (一種新型的托鏈板結構)	201120198951.6	Utility patent	Sany Heavy Machinery	PRC	June 14, 2011

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Name of Patent	Application No.	Type of Patent	Name of Applicant	Place on Application	Date of Application
Excavator platform with shaft sleeve (帶軸套的挖掘機平臺)	201120198952.0	Utility patent	Sany Heavy Machinery	PRC	June 14, 2011
short circuit prevention fixed structure for accumulator (防短路的蓄電池固定結構)	201120198915.X	Utility patent	Sany Heavy Machinery	PRC	June 14, 2011
A type of fixed bracket with multiple-controller (一種多控制器的固定支架)	201120194353.1	Utility patent	Shanghai Sany Heavy Machinery	PRC	June 10, 2011
Device capable of automatically removing mud on lower fame structure of excavator (自動清除挖掘機下車架泥土的裝置)	201120194317.5	Utility patent	Shanghai Sany Heavy Machinery	PRC	June 10, 2011
A type of air filter (一種空氣濾清器)	201120224197.9	Utility patent	Sany Heavy Machinery	PRC	June 29, 2011
A new-type of display (新型顯示器)	201120224170.X	Utility patent	Sany Heavy Machinery	PRC	June 29, 2011
A new-type of connector between bucket and rod (一種新型鏟鬥鬥杆連接結構)	201120239335.0	Utility patent	Sany Heavy Machinery	PRC	July 8, 2011
Internal decoration for excavator driver's cab (挖掘機駕駛室內飾)	201130166899.1	Design patent	Shanghai Sany Heavy Machinery	PRC	June 10, 2011
Stamping cover (衝壓式機頂罩)	201130198240.4	Design patent	Sany Heavy Machinery	PRC	June 29, 2011
Crane 3D load moment limiter and crane with the same (起重機的三維力矩限制器和包括該力矩限制器的起重機)	201110133610.5	Invention patent	Shanghai Sany Technology	PRC	May 23, 2011
Back tipping prevention structure for crane and crane with the same (起重機的防後傾結構和包括該結構的起重機)	201110133608.8	Invention patent	Shanghai Sany Technology	PRC	May 23, 2011
Multiple-layer winding rope groove drum and processing method thereof and crane with the same (多層纏繞繩槽捲筒及其加工方法及包括該捲筒的起重機)	201110128166.8	Invention patent	Shanghai Sany Technology	PRC	May 18, 2011
Optimized control device and method for super lifting counterweight and crane with the same (超起配重優化控制裝置及方法及包括該裝置的起重機)	201110158610.0	Invention patent	Shanghai Sany Technology	PRC	June 14, 2011
Double-engine power system and crane with the same (具有雙發動機的動力系統及包括該動力系統的起重機)	201110153212.X	Invention patent	Shanghai Sany Technology	PRC	June 9, 2011
Support structure capable of improving bearing capacity of arm rack and crane with the same (提高臂架承載能力的支撐結構及包括該結構的起重機)	201110185721.0	Invention patent	Shanghai Sany Technology	PRC	July 5, 2011

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Name of Patent	Application No.	Type of Patent	Name of Applicant	Place on Application	Date of Application
Slippage and Lock-up mechanism for crane driver's cab slippage door and crane with the same (起重機駕駛室移門滑移及鎖定機構及包括該結構的起重機)	201110198223.X	Invention patent	Shanghai Sany Technology	PRC	July 15, 2011
Eccentrically deployed structure of crawler crane platform and crane with the same (履帶起重機平臺偏心佈置結構及包括該結構的起重機)	201110178324.0	Invention patent	Shanghai Sany Technology	PRC	June 29, 2011
A type of counterweight movable apparatus of crawler crane and crane with the same (一種履帶起重機配重移動裝置及包括該裝置的起重機)	201110200408.X	Invention patent	Shanghai Sany Technology	PRC	July 18, 2011
Rotation angle detecting device and control method and crane with the same (回轉角度檢測裝置及控制方法及包括該裝置的起重機)	201110198225.9	Invention patent	Shanghai Sany Technology	PRC	July 15, 2011
A type of variable double-pump hydraulic system and crane with the same (一種變數雙泵液壓系統及包括該系統的起重機)	201110198189.6	Invention patent	Shanghai Sany Technology	PRC	July 15, 2011
A type of liquid level gauge with self-sealing valve and crane with the same (一種帶自封閥的液位計及包括該液位計的起重機)	201110198190.9	Invention patent	Shanghai Sany Technology	PRC	July 15, 2011
Five-row roller type slewing support of crane and crane with the same (起重機的五排滾柱式回轉支承及包括該支承結構的起重機)	201120245866.0	Utility patent	Shanghai Sany Technology	PRC	July 13, 2011
Back tipping prevention device for fixing auxiliary arm of crane and crane with the same (起重機上的固定副臂防後傾裝置及包括該裝置的起重機)	201120176474.3	Utility patent	Shanghai Sany Technology	PRC	May 30, 2011
System for restricting working area of crane jib and crane with the same (限制起重機臂架工作區域的系統及包括該系統的起重機)	201120198898.X	Utility patent	Shanghai Sany Technology	PRC	June 14, 2011
A type of winch emergency unloading device and crane with the same (一種卷揚應急下放裝置及包括該裝置的起重機)	201120249917.7	Utility patent	Shanghai Sany Technology	PRC	July 15, 2011
A new type of range mast and crane with the same (一種新型變幅桅杆及包括該桅杆的起重機)	201120224313.7	Utility patent	Shanghai Sany Technology	PRC	June 29, 2011
Horizontal platform structure of crawler crane and crane with the same (履帶起重機橫平臺結構及包括該結構的起重機)	201120249757.6	Utility patent	Shanghai Sany Technology	PRC	July 15, 2011

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Name of Patent	Application No.	Type of Patent	Name of Applicant	Place on Application	Date of Application
Intelligent control terminal (CAN bus) (智能控制終端 (CAN總線))	201130133733.X	Design patent	Shanghai Sany Technology	PRC	May 23, 2011
Icon 1 圖標1	201130171757.4	Design patent	Shanghai Sany Technology	PRC	June 14, 2011
Icon 2 圖標2	201130171761.0	Design patent	Shanghai Sany Technology	PRC	June 14, 2011
Icon 3 圖標3	201130171756.X	Design patent	Shanghai Sany Technology	PRC	June 14, 2011
Fence 護欄	201130146529.1	Design patent	Shanghai Sany Technology	PRC	May 30, 2011
A type of automatic loading and unloading method for crawler crane hoist back counterweight (一種履帶起重機主機後配重自裝卸方法)	200910197412.8	Invention patent	Shanghai Sany Technology	PRC	October 20, 2009
Crawler crane mast retraction auto-control hydraulic system (履帶起重機桅杆收放自動控制液壓系統)	200910197992.0	Invention patent	Shanghai Sany Technology	PRC	October 30, 2009
A type of main actuating mechanism closed type hydraulic system for crawler crane (一種履帶起重機主執行機構閉式液壓系統)	200910052932.X	Invention patent	Shanghai Sany Technology	PRC	June 11, 2009
Integral stability closed ring type detection system for crawler crane and control method thereof (履帶起重機整機穩定性的閉環式檢測系統及其控制方法)	201010113026.9	Invention patent	Kunshan Sany Machinery	PRC	February 24, 2010
Crawler crane mast erection method and apparatus (履帶起重機桅杆的安裝方法和裝置)	200910055151.6	Invention patent	Shanghai Sany Technology	PRC	July 21, 2009
Creeper tread quality detection device and method thereof (履帶板質量檢測設備及其檢測方法)	200910055592.6	Invention patent	Shanghai Sany Technology	PRC	July 29, 2009
Diesel engine start protection system (柴油機起動保護系統)	200910055887.3	Invention patent	Shanghai Sany Technology	PRC	August 4, 2009
Multiple-lifting point lifting hook (多吊點吊鉤)	201010101262.9	Invention patent	Kunshan Sany Machinery	PRC	January 26, 2010
Crawler crane superlift counterweight stepless range mechanism and operation method thereof (履帶起重機超起配重無級變幅機構及其操作方法)	201010101261.4	Invention patent	Kunshan Sany Machinery	PRC	January 26, 2010
Foldable extension arm (可折疊式加長臂)	201010113038.1	Invention patent	Kunshan Sany Machinery	PRC	February 24, 2010
Automatic control system of distance between object and ground, and control method thereof (自動控制物體與地面距離的系統及其控制方法)	201010119637.4	Invention patent	Kunshan Sany Machinery	PRC	March 8, 2010

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Name of Patent	Application No.	Type of Patent	Name of Applicant	Place on Application	Date of Application
Electrical control cabinet circuit automatic control system and testing method thereof (電氣控制櫃綫路自動控制系統及其檢測方法)	201010119647.8	Invention patent	Kunshan Sany Machinery	PRC	March 8, 2010
Optimized lubricating structure of crane drawing plate pin hole and method of use thereof (起重機拉板銷孔的優化潤滑結構及其使用方法)	201010127737.1	Invention patent	Kunshan Sany Machinery	PRC	March 19, 2010
Rolling bearing loading testing device and testing method thereof (滾動軸承加載檢測裝置及其檢測方法)	201010130112.0	Invention patent	Kunshan Sany Machinery	PRC	March 22, 2010
A type of jib reversing testing device (一種臂架扭轉試驗裝置)	201010204023.6	Invention patent	Shanghai Sany Technology	PRC	June 18, 2010
Multiple-layer winding groove integrated machine-worked reel (多層纏繞繩槽整體機加工捲筒)	201010213117.X	Invention patent	Shanghai Sany Technology	PRC	June 25, 2010
Method of use for a type of crane rotary speed reducer installation device (一種起重機回轉減速機安裝裝置及其使用方法)	201010272757.8	Invention patent	Shanghai Sany Technology	PRC	September 6, 2010
Main actuating mechanism closed type hydraulic system for dual-engine driven crawler crane (帶雙發動機驅動的履帶起重機主執行機構閉式液壓系統)	201010232160.0	Invention patent	Shanghai Sany Technology	PRC	July 21, 2010
A type of hydraulic-driven diesel engine heat radiating system and method thereof (一種液壓驅動的柴油機散熱系統及其方法)	201010209282.8	Invention patent	Shanghai Sany Technology	PRC	June 24, 2010
A type of crane jib transitional structure (一種起重機臂架過渡結構)	201010232241.0	Invention patent	Shanghai Sany Technology	PRC	July 21, 2010
A type of electrohydraulic control system for winch free fall unloading (一種捲揚機自由落體下放的電液控制系統)	201010236073.2	Invention patent	Shanghai Sany Technology	PRC	July 26, 2010
Secondary adjustment system and method for crawler crane main amplitude mast lifting cylinder (履帶起重機主變幅桅杆扳起油缸二次壓力調整系統及方法)	201010236074.7	Invention patent	Kunshan Sany Machinery	PRC	July 26, 2010
A type of testing device and method for crane superlift counterweight deviation (一種起重機超起配重偏離的檢測裝置及方法)	201010243251.4	Invention patent	Shanghai Sany Technology	PRC	August 3, 2010
A method for lowering crane jib's centre of gravity (一種降低起重機臂架重心的方法)	201010255199.4	Invention patent	Shanghai Sany Technology	PRC	August 17, 2010

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Name of Patent	Application No.	Type of Patent	Name of Applicant	Place on Application	Date of Application
A type of crawler crane anti-rollover device and method based on load moment limiter (一種基於力矩限制器的履帶起重機防傾翻裝置和方法)	201010502147.2	Invention patent	Shanghai Sany Technology	PRC	October 11, 2010
A type of connection device and method for concealed junction box (一種隱藏接綫盒的接綫裝置和接綫方法)	201010500880.0	Invention patent	Shanghai Sany Technology	PRC	October 9, 2010
A type of welding device and process method for extended jib assembly positioned welding (一種增節臂架體裝配定位焊的焊接裝置及工藝方法)	201010501006.9	Invention patent	Shanghai Sany Technology	PRC	October 9, 2010
Flexible four-crawler counterweight trolley synchronization control system and control method (具有多自由度的四履帶配重小車同步控制系統及控制方法)	201010520731.0	Invention patent	Shanghai Sany Technology	PRC	October 27, 2010
Crawler crane jib side adjustment system (履帶起重機臂架側向調整系統)	201010296303.4	Invention patent	Shanghai Sany Technology	PRC	September 29, 2010
A type of electrical control cabinet connected with wires (一種綫束連接的電控櫃)	201010520564.X	Invention patent	Shanghai Sany Technology	PRC	October 27, 2010
A type of fall protection rope for jib (一種臂架用防跌落安全繩)	201010547620.9	Invention patent	Shanghai Sany Technology	PRC	November 17, 2010
A type of lifting hook with anti-rotation device (一種帶防旋轉裝置的吊鈎)	201010547619.6	Invention patent	Shanghai Sany Technology	PRC	November 17, 2010
Automatic testing and control device for dynamic compaction machine (強夯機自動檢測控制裝置)	201010594458.6	Invention patent	Shanghai Sany Technology	PRC	December 20, 2010
A type of crawler crane rotary resetting position testing device and installation method thereof (一種履帶起重機回轉清零位置檢測裝置及其安裝方法)	201010594459.0	Invention patent	Shanghai Sany Technology	PRC	December 20, 2010
A new-type track plate (一種新型履帶板)	201010528050.9	Invention patent	Shanghai Sany Technology	PRC	November 2, 2010
Identification of physical address of partial node, network configuration and maintaining method, network system (識別分節點物理地址、網絡配置及維護方法、網絡系統)	200810187862.4	Invention patent	our Company	PRC	December 22, 2008
Method and device for detecting efficiency parameters of hydraulic system and engineering machinery having the device (檢測液壓系統效率參數的方法和裝置及工程機械)	200910149512.3	Invention patent	our Company	PRC	June 25, 2009
A type of shield tunneling machine and front shield thereof (一種盾構機及其前盾系統)	201110218924.5	Invention patent	Beijing Sany Heavy Machinery	PRC	August 1, 2011

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Name of Patent	Application No.	Type of Patent	Name of Applicant	Place on Application	Date of Application
A type of slurry injection system and tunnel boring machine (一種泥漿注入系統及隧道掘進機械)	201110214681.8	Invention patent	Beijing Sany Heavy Machinery	PRC	July 29, 2011
A type of shield tunneling cutter disk measuring device and shield tunneling machine with the same (一種盾構刀盤位置測量裝置及具有其的盾構機)	201120237041.4	Utility patent	Beijing Sany Heavy Machinery	PRC	July 6, 2011
A type of rotary drilling tool and rotary drilling rig with the same (一種旋挖鑽具及具有其的旋挖鑽機)	201120293852.6	Utility patent	Beijing Sany Heavy Machinery	PRC	August 24, 2011
A type of grout pipe washing device for shield tunneling machine (一種盾構機用注漿管清洗裝置)	201120303359.8	Utility patent	Beijing Sany Heavy Machinery	PRC	August 19, 2011
A type of drilling tool and engineering machinery with such drilling tool (一種鑽具及具有該鑽具的工程機械)	201120284511.2	Utility patent	Beijing Sany Heavy Machinery	PRC	August 5, 2011
A type of grab and rotary drilling rig incorporating such grab (一種抓鬥及包括該抓鬥的旋挖鑽機)	201120310085.5	Utility patent	Beijing Sany Heavy Machinery	PRC	August 24, 2011
A type of drilling rig for connecting components and grabs (一種連接元件和連接抓鬥的鑽機)	201120310083.6	Utility patent	Beijing Sany Heavy Machinery	PRC	August 24, 2011
A type of mixing station or mixing plant and control system of mixing station or mixing plant (一種攪拌站或攪拌樓及攪拌站或攪拌樓的控制系統)	201110157565.7	Invention	Sany Heavy Industry	PRC	June 13, 2011
A type of cantilever structure and truck-mounted concrete pump (一種臂架結構及混凝土泵車)	201110157564.2	Invention	Sany Heavy Industry	PRC	June 13, 2011
A type of cantilever engineering machinery and boom device thereof (一種臂架式工程機械及其臂架裝置)	201110182800.1	Invention	Sany Heavy Industry	PRC	June 8, 2011
A type of material conveyor (一種物料輸送裝置)	201110161153.0	Invention	Sany Heavy Industry	PRC	June 14, 2011
A type of centre rotator and engineering machinery (一種中心回轉裝置及工程機械)	201110166502.8	Invention	Sany Heavy Industry	PRC	June 20, 2011
A type of clutch abrasion detection system and vehicle (一種離合器磨損檢測系統及汽車)	201110167946.3	Invention	Sany Heavy Industry	PRC	June 21, 2011
Cantilever vibration suppression method, system and cantilever engineering machinery (臂架振動抑制方法、系統及臂架式工程機械)	201110183634.1	Invention	Sany Heavy Industry	PRC	July 1, 2011
Mechanism for reducing the impact of fluid fluctuation, parallel bar reverse pumping system and concrete pump (降低流體脈動衝擊的機構、雙杠換向泵送系統及混凝土泵)	201110177341.2	Invention	Sany Heavy Industry	PRC	June 28, 2011

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Name of Patent	Application No.	Type of Patent	Name of Applicant	Place on Application	Date of Application
A type of high pressure water delivery system and water supply installation (一種高壓水輸送系統及供水裝置)	201110176403.8	Invention	Sany Heavy Industry	PRC	June 28, 2011
A type of tank transport vehicle (一種罐體輸送車)	201110177527.8	Invention	Sany Heavy Industry	PRC	June 28, 2011
Cantilever vibration suppression method, system and cantilever engineering machinery (臂架振動抑制方法、系統及臂架式工程機械)	201110183675.0	Invention	Sany Heavy Industry	PRC	July 1, 2011
A type of vehicle cab front suspension and heavy vehicle (一種汽車駕駛室前懸置及重型汽車)	201110181783.4	Invention	Sany Heavy Industry	PRC	June 30, 2011
Method for obtaining cantilever system end position parameters, cantilever system and engineering machinery (獲得臂架系統末端位置參數的方法、臂架系統及工程機械)	201110194574.3	Invention	Sany Heavy Industry	PRC	July 12, 2011
Method for obtaining cantilever system end position parameters, cantilever system and engineering machinery (獲得臂架系統末端位置參數的方法、臂架系統及工程機械)	201110192138.2	Invention	Sany Heavy Industry	PRC	July 12, 2011
A type of truck-mounted concrete pump (一種混凝土泵車)	201110177115.4	Invention	Sany Heavy Industry	PRC	June 28, 2011
Motor vehicle speed control method, control system and cantilever engineering machinery (發動車轉速控制方法、控制系統及臂架式工程機械)	201110177191.5	Invention	Sany Heavy Industry	PRC	June 28, 2011
A type of truck-mounted pump (一種泵車)	201110177356.9	Invention	Sany Heavy Industry	PRC	June 28, 2011
Milling-planing machine conveying folding control control system and milling-planing machine (銑刨機輸料折疊控制系統及銑刨機)	201120172256.2	Utility patent	Sany Heavy Industry	PRC	May 26, 2011
Adjustable rotary mechanism, rotary table and cantilever engineering machinery (可調式回轉機構、轉檯及臂架式工程機械)	201120181714.9	Utility patent	Sany Heavy Industry	PRC	June 1, 2011
A type of water measurement rough and precise weighing system (一種水計量粗精稱系統)	201120197115.6	Utility patent	Sany Heavy Industry	PRC	June 13, 2011
A type of shock absorber and engineering equipment with such shock absorber (一種減震裝置及具有該減震裝置的工程設備)	201120197138.7	Utility patent	Sany Heavy Industry	PRC	June 13, 2011
A type of supporting leg locking arrangement and concrete pumping equipment (一種支腿鎖止裝置及混凝土泵送設備)	201120198789.8	Utility patent	Sany Heavy Industry	PRC	June 14, 2011
Conical external cylindrical match grinding former (錐形外圓配磨成形裝置)	201120210025.6	Utility patent	Sany Heavy Industry	PRC	June 21, 2011

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Name of Patent	Application No.	Type of Patent	Name of Applicant	Place on Application	Date of Application
A type of cantilever structure and truck-mounted concrete pump (一種臂架結構及混凝土泵車)	201120197976.4	Utility patent	Sany Heavy Industry	PRC	June 13, 2011
A type of cantilever engineering machinery and cantilever device thereof (一種臂架式工程機械及其臂架裝置)	201120191159.8	Utility patent	Sany Heavy Industry	PRC	June 8, 2011
Concrete equipment and delivery pipe positioning device thereof (混凝土設備及其輸送管定位裝置)	201120183996.6	Utility patent	Sany Heavy Industry	PRC	June 1, 2011
Hydraulic cylinder and piston body thereof (液壓油缸及其活塞體)	201120184105.9	Utility patent	Sany Heavy Industry	PRC	June 1, 2011
Concrete pumping equipment and delivery pipe fixing device thereof (混凝土泵送設備及其輸送管固定裝置)	201120183660.x	Utility patent	Sany Heavy Industry	PRC	June 1, 2011
Concrete mixing truck-mounted conveyor and roller thereof (混凝土攪拌輸送車及其托輪裝置)	201120221015.2	Utility patent	Sany Heavy Industry	PRC	June 27, 2011
Placing boom, lifting device for construction machinery and guiding base of such lifting device (布料杆、建築機械的爬升裝置及該爬升裝置的導向座)	201120220755.4	Utility patent	Sany Heavy Industry	PRC	June 27, 2011
Concrete mixing equipment and material conveying system thereof (混凝土攪拌設備及其物料輸送系統)	201120220630.1	Utility patent	Sany Heavy Industry	PRC	June 27, 2011
A type of engineering machinery and supporting leg system thereof (一種工程機械及其支腿系統)	201120209311.0	Utility patent	Sany Heavy Industry	PRC	June 20, 2011
A type of concrete pump and bucket thereof (一種混凝土泵及其料斗)	201120220629.9	Utility patent	Sany Heavy Industry	PRC	June 27, 2011
A type of high pressure water delivery system and water supply installation (一種高壓水輸送系統及供水裝置)	201120221830.9	Utility patent	Sany Heavy Industry	PRC	June 28, 2011
A type of engineering machinery and hinge extension mechanism thereof (一種工程機械及其鉸接伸展機構)	201120222662.5	Utility patent	Sany Heavy Industry	PRC	June 28, 2011
A type of cantilever engineering machinery and trailer thereof (一種臂架式工程機械及其拖車)	201120222019.2	Utility patent	Sany Heavy Industry	PRC	June 28, 2011
A type of engineering machinery (一種工程機械)	201120222663.x	Utility patent	Sany Heavy Industry	PRC	June 28, 2011
A type of supporting leg pad and engineering machinery (一種支腿墊板及工程機械)	201120222846.1	Utility patent	Sany Heavy Industry	PRC	June 28, 2011
A type of engineering machinery with trailer (一種帶拖車的工程機械)	201120223048.0	Utility patent	Sany Heavy Industry	PRC	June 28, 2011
Conical external cylindrical match grinding former (錐形外圓配磨成形裝置)	201120210025.6	Utility patent	Sany Heavy Industry	PRC	June 21, 2011

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A type of air filtering bag, dust catcher and mixture mixing station (一種空氣過濾布袋、除塵器及混合料攪拌站)	201120212157.2	Utility patent	Sany Heavy Industry	PRC	June 22, 2011
Detachable mixing blade, mixing device incorporating such blade and engineering machinery (可拆卸式攪拌葉片、具有該葉片的攪拌裝置及工程機械)	201120222604.2	Utility patent	Sany Heavy Industry	PRC	2011-6-28
Cantilever system and truck-mounted concrete pump incorporating such cantilever(臂架系統及具有該臂架系統的混凝土泵車)	201120222622.0	Utility patent	Sany Heavy Industry	PRC	June 28, 2011
Cantilever engineering machinery and inherent turret thereof (臂架式工程機械及其固有轉塔)	201120222626.9	Utility patent	Sany Heavy Industry	PRC	June 28, 2011
Supporting leg engineering machinery, telescopic component and pipeline layout device thereof (支腿式工程機械、伸縮式元件及其管綫布置裝置)	201120222627.3	Utility patent	Sany Heavy Industry	PRC	June 28, 2011
Automatic locking, self-removable counterweight device and crane (自鎖、自拆裝配重裝置及起重機)	201120219641.8	Utility patent	Sany Heavy Industry	PRC	June 27, 2011
Concrete pumping equipment, mixing shaft and mixing device incorporating such mixing shaft (混凝土泵送設備、攪拌軸及具有該攪拌軸的攪拌裝置)	201120222599.5	Utility patent	Sany Heavy Industry	PRC	June 28, 2011
Cantilever engineering machinery and cantilever system (臂架式工程機械及臂架系統)	201120222616.5	Utility patent	Sany Heavy Industry	PRC	June 28, 2011
Frame wear-resisting device used in track type engineering machinery and track type engineering machinery (用於履帶式工程機械的台車架防磨裝置及履帶式工程機械)	201120257336.8	Utility patent	Sany Heavy Industry	PRC	July 20, 2011
A type of telescopic arm and engineering machinery incorporating such telescopic arm (一種伸縮臂及包括該伸縮臂的工程機械)	201110131632.8	Invention	Sany Automobile Hoisting Machinery	PRC	May 19, 2011
A type of telescopic arm and engineering machinery incorporating such telescopic arm (一種伸縮臂及包括該伸縮臂的工程機械)	201110130745.6	Invention	Sany Automobile Hoisting Machinery	PRC	May 19, 2011
A type of telescopic arm and engineering machinery incorporating such telescopic arm (一種伸縮臂及包括該伸縮臂的工程機械)	201110131108.0	Invention	Sany Automobile Hoisting Machinery	PRC	May 18, 2011

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A type of vehicle and balancing suspension frame thereof (一種車輛及其平衡懸架)	201110154189.6	Invention	Sany Automobile Hoisting Machinery	PRC	June 9, 2011
A type of oil and gas suspension system and engineering vehicle incorporating such suspension mechanism (油氣懸掛系統及具有該懸掛機構的工程車輛)	201110159432.3	Invention	Sany Automobile Hoisting Machinery	PRC	June 14, 2011
Multi-arm telescopic device and crane with the same (多節臂伸縮裝置及具有其的起重機)	201110170058.7	Invention	Sany Automobile Hoisting Machinery	PRC	June 22, 2011
A type of single-cylinder bolt type telescopic boom emergency arm retraction method and device (一種單缸插銷式伸縮臂應急收臂方法及裝置)	201110179442.3	Invention	Sany Automobile Hoisting Machinery	PRC	June 29, 2011
A type of crane auxiliary arm automatic retractable device and crane (一種起重機副臂自動收、放裝置及起重機)	201110179441.9	Invention	Sany Automobile Hoisting Machinery	PRC	June 29, 2011
A type of crane closed rotary hydraulic system and crane (一種起重機閉式回轉液壓系統及起重機)	201110179255.5	Invention	Sany Automobile Hoisting Machinery	PRC	June 29, 2011
A type of engineering machinery ultimate load control method and device (一種工程機械極限負載控制方法和裝置)	201110197125.4	Invention	Sany Automobile Hoisting Machinery	PRC	July 14, 2011
A type of engineering machinery and supporting plate device thereof (一種工程機械及其支腳盤裝置)	201120222664.4	Utility patent	Sany Automobile Hoisting Machinery	PRC	June 28, 2011
A type of cantilever engineering machinery and telescopic arm thereof (一直臂架式工程機械及其伸縮臂)	201120220752.0	Utility patent	Sany Automobile Hoisting Machinery	PRC	June 27, 2011
A type of crane power device and crane (一種起重機動力裝置及起重機)	201120209237.2	Utility patent	Sany Automobile Hoisting Machinery	PRC	June 20, 2011
A type of oil and gas suspension system and engineering vehicle incorporating such suspension mechanism (油氣懸掛系統及具有該懸掛機構的工程車輛)	201120200303.x	Utility patent	Sany Automobile Hoisting Machinery	PRC	June 14, 2011
Hydraulic tightening system and crane incorporating such system (液壓張緊系統及具有該系統的起重機)	201120211548.2	Utility patent	Sany Automobile Hoisting Machinery	PRC	June 21, 2011

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Self-removable device and crane installed with such counterweight self-removable device (配置自拆裝裝置及裝有該配重自拆裝裝置的起重機)	201120254996.0	Utility patent	Sany Automobile Hoisting Machinery	PRC	June 16, 2011
A type of all-terrain crane chassis flow distribution device and crane (一種全地面起重機底盤流量分配裝置和起重機)	201120221940.5	Utility patent	Sany Automobile Hoisting Machinery	PRC	June 28, 2011
A type of crane scale cooling device and crane (一種起重機比例冷卻裝置和起重機)	201120221951.3	Utility patent	Sany Automobile Hoisting Machinery	PRC	June 28, 2011
A type of shock absorber and engineering equipment incorporating such shock absorber (一種減震裝置及具有該減震裝置的工程設備)	201120197138.7	Utility patent	Sany Automobile Hoisting Machinery	PRC	June 13, 2011
A type of engineering machinery and A frame structure thereof (一種工程機械及其人字架結構)	201120222700.7	Utility patent	Sany Automobile Hoisting Machinery	PRC	June 28, 2011
A type of engine heat dissipation device and crane (一種發動機散熱裝置和起重機)	201120252878.6	Utility patent	Sany Automobile Hoisting Machinery	PRC	July 18, 2011
A type of connecting pipe and engine cooling system (一種連接管和發動機冷卻系統)	201120259061.1	Utility patent	Sany Automobile Hoisting Machinery	PRC	July 21, 2011
A type of crane low temperature automatic auxiliary device and crane (一種起重機低溫自動輔助裝置和起重機)	201120265935.4	Utility patent	Sany Automobile Hoisting Machinery	PRC	July 26, 2011
A type of oil cylinder connecting device and movable support oil cylinder (一種油缸連接裝置和活動支腿油缸)	201120275856.1	Utility patent	Sany Automobile Hoisting Machinery	PRC	August 1, 2011
A type of crane displacement control device and crane (一種起重機排量控制裝置和起重機)	201120283239.6	Utility patent	Sany Automobile Hoisting Machinery	PRC	August 5, 2011
A type of crane lifting measuring device and crane (一種起重機吊重測量裝置和起重機)	201120292772.9	Utility patent	Sany Automobile Hoisting Machinery	PRC	August 12, 2011
Arm end wide view lower vision mirror crane (臂端大視野下視鏡起重機)	201120252080.1	Utility patent	Sany Automobile Hoisting Machinery	PRC	July 18, 2011
Multi-bridge drive and engineering machinery (多橋驅動裝置及工程機械)	201120252075.0	Utility patent	Sany Automobile Hoisting Machinery	PRC	July 18, 2011

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Name of Patent	Application No.	Type of Patent	Name of Applicant	Place on Application	Date of Application
A type of excavator self-test system and method (一種挖掘機自檢測系統及方法)	201110241263.8	Invention patent	Kunshan Sany Machianery	PRC	August 22, 2011
A type of device to enhance the hydraulic oil preheating function (一種增強液壓油預熱功能的裝置)	201110223603.4	Invention patent	Kunshan Sany Machianery	PRC	August 5, 2011
A type of excavator voice control system and control method (一種挖掘機語音控制系統及控制方法)	201110223602.X	Invention patent	Kunshan Sany Machianery	PRC	August 5, 2011
Software remote control adjustment, testing and upgrading method and system (軟體遠端調試和升級的方法及系統)	201110223599.1	Invention patent	Kunshan Sany Machianery	PRC	August 5, 2011
A testing system for display screen (一種用於顯示幕的檢測系統)	201110223565.2	Invention patent	Kunshan Sany Machianery	PRC	August 5, 2011
A type of hydraulic Cylinder testing system (一種液壓油缸試驗系統)	201110231443.8	Invention patent	Kunshan Sany Machianery	PRC	August 12, 2011
A type of rotary support holder structure (一種回轉支承座結構)	201110223597.2	Invention patent	Kunshan Sany Machianery	PRC	August 5, 2011
A type of testing system for hydraulic system of hydraulic excavator (一種液壓挖掘機液壓系統測試系統)	201110223596.8	Invention patent	Kunshan Sany Machianery	PRC	August 5, 2011
A type of intelligent control method for engineering machinery motor cooling fan (一種工程機械用發動機冷卻風扇的智慧控制方法)	201110235403.0	Invention patent	Kunshan Sany Machianery	PRC	August 17, 2011
A type of heating system and engineering machinery using this system (一種加熱系統及應用其的工程機械)	201110243193.X	Invention patent	Kunshan Sany Machianery	PRC	August 23, 2011
A type of engineering machinery and its motor off-ignition device (一種工程機械及其發動機熄火裝置)	201120246190.7	Utility patent	Kunshan Sany Machianery	PRC	July 13, 2011
A type of two-direction hydraulic return system and engineering machinery (一種雙向液壓回路系統及工程機械)	201120271201.7	Utility patent	Kunshan Sany Machianery	PRC	July 28, 2011
Oil pump hose storage structure (加油泵油管放置結構)	201120304604.7	Utility patent	Kunshan Sany Machianery	PRC	August 20, 2011
Driver's cab protection device against falling objects (駕駛室防落物裝置)	201120309235.0	Utility patent	Kunshan Sany Machianery	PRC	August 24, 2011
A new model of two-way buffer structure for high pressure cylinder (一種新型的高壓油缸雙向緩衝結構)	201120292402.5	Utility patent	Kunshan Sany Machianery	PRC	August 12, 2011
A type of matching structure for gear base and bucket gear (一種齒座與鬥齒的配合結構)	201120283254.0	Utility patent	Kunshan Sany Machianery	PRC	August 5, 2011
Excavator display and control device with radio function (帶收音機功能的挖掘機顯控裝置)	201120283251.7	Utility patent	Kunshan Sany Machianery	PRC	August 5, 2011
Interface protection circuit for excavator control device (挖掘機控制器的介面保護電路)	201120283296.4	Utility patent	Kunshan Sany Machianery	PRC	August 5, 2011

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Name of Patent	Application No.	Type of Patent	Name of Applicant	Place on Application	Date of Application
A type of auxiliary support structure for excavator working device (一種挖掘機工作裝置的輔助支承機構)	201120283230.5	Utility patent	Kunshan Sany Machianery	PRC	August 5, 2011
A new model of excavator hydraulic system return oil back pressure regulation valve installation structure (一種新型的挖掘機液壓系統回油背壓閥安裝結構)	201120283252.1	Utility patent	Kunshan Sany Machianery	PRC	August 5, 2011
A type of testing system for industrial remote control equipment (一種用於工業遙控設備的檢測系統)	201120283255.5	Utility patent	Kunshan Sany Machianery	PRC	August 5, 2011
A type of heating system for excavator working device (一種挖掘機的工作裝置加熱系統)	201120298591.7	Utility patent	Kunshan Sany Machianery	PRC	August 17, 2011
A type of excavator rear view monitoring device (一種挖掘機的後方監視裝置)	201120300779.0	Utility patent	Kunshan Sany Machianery	PRC	August 18, 2011
A type of pin end lubricating device (一種銷軸端部潤滑裝置)	201120298888.3	Utility patent	Kunshan Sany Machianery	PRC	August 17, 2011
Excavator movable arm (挖掘機動臂)	201120309203.0	Utility patent	Kunshan Sany Machianery	PRC	August 24, 2011
Crawler-plate telescopic mechanism and crawler type piling machinery (履帶式底盤伸縮機構及履帶式樁工機械)	201120308214.7	Utility patent	Kunshan Sany Machianery	PRC	August 23, 2011
A type of one-way check valve and oil pipeline (一種單向止回閥和輸油管路)	201120307660.6	Utility patent	Kunshan Sany Machianery	PRC	August 23, 2011
Display screen (顯示屏)	201130285653.6	Utility patent	Kunshan Sany Machianery	PRC	August 23, 2011

Copyrights

As of the Latest Practicable Date, we were the registered proprietor of the following copyrights:

Copyright	Registration No.	Name of Registered Proprietor	Place of Registration	Date of First Publication
Sany Group's engineering machinery haul-distance monitoring system V1.0 (三一集團工程機械運程監控系統V1.0)	2009SR01090	Sany Heavy Industry	PRC	January 1, 2007
Sany Heavy Industry's working plan and supervision platform system V1.0 (三一重工工作計劃及督辦管理平臺系統V1.0)	2009SR01092	Sany Heavy Industry	PRC	August 10, 2006

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Copyright	Registration No.	Name of Registered Proprietor	Place of Registration	Date of First Publication
Sany's global customer portal software V1.0 (三一全球客戶門戶軟件V1.0)	2008SR03230	Sany Heavy Industry	PRC	November 10, 2007
Sany MES V1.0 (製造執行系統V1.0)	2008SR03229	Sany Heavy Industry	PRC	October 1, 2007
Sany Group's intelligence device management system V1.0 (三一集團智能設備管理系統V1.0)	2009SR01091	Sany Heavy Industry	PRC	October 1, 2007
SCC crawler crane contact pressure calculating procedure V1.0 (SCC履帶起重機接地比壓計算程序V1.0)	2008SR02975	Shanghai Sany Technology	PRC	November 30, 2007
Crawler crane data transmitting center system V1.0 (履帶起重機數據轉發中心系統V1.0)	2010SR00357	Shanghai Sany Technology	PRC	October 8, 2009
Crawler crane input data analysis system V1.0 (履帶起重機錄取數據分析系統V1.0)	2010SR003565	Shanghai Sany Technology	PRC	October 8, 2009
Crawler crane 3D/2D lifting proposal simulation system computer software V1.0 (履帶起重機三維/二維吊裝方案仿真系統計算機軟件V1.0)	2009SR10974	Shanghai Sany Technology	PRC	December 25, 2008
GPS mobile terminal monitoring software V1.0 (GPS移動終端監控軟件V1.0)	2010SR000978	Hunan Sany Intelligence Control Equipment Co., Ltd.	PRC	November 12, 2009
Weight display control system V1.0 (稱重顯示控制系統V1.0)	2010SR000979	Hunan Sany Intelligence Control Equipment Co., Ltd.	PRC	November 2, 2009

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Domain names

As of the Latest Practicable Date, we were the registered proprietor of the following domain names:

Domain names	Name of Proprietor	Date of Registration	Expiry date
sanygroup.com	our Company	October 9, 2001	October 9, 2015
sany-china.com	our Company	September 13, 2001	September 13, 2012
sany-group.com	our Company	January 13, 2011	January 13, 2012
sanyhi.com	our Company	January 1, 2009	January 16, 2015
sanyhi.cn	our Company	January 16, 2009	January 16, 2012
sanyagent.cn	our Company	September 17, 2009	September 17, 2015

FURTHER INFORMATION ABOUT THE DIRECTORS AND SUPERVISORS

1. Directors' and Supervisors' Service Contracts

[Each of the executive Directors and Supervisors has entered into a service agreement with the Company. Principal particulars of these agreements are summarized below.

- (a) Each service agreement is for an initial term of three years commencing on [●] (subject to termination in certain circumstances as stipulated in the relevant agreement). Under each agreement, either party may terminate the agreement at any time by giving to the other not less than one month's prior written notice.
- (b) Under the current arrangements, the aggregate remuneration payable to the Directors shall be approved by shareholders' meeting from time to time. In addition, each of the executive Directors is entitled to social and welfare benefits provided under the relevant PRC laws and regulations (including, but not limited to, housing, food and childcare subsidy).
- (c) Each of the executive Directors shall abstain from voting and not be counted in the quorum in respect of any resolution of the Board regarding the amount of annual salary or management bonus payable to him.]

[None of our Directors or Supervisors has or is proposed to have a service agreement with any member of the Group (excluding agreements expiring or determinable by the employer within one year without payment of compensation (other than statutory compensation)).]

2. Directors' and Supervisors' Remuneration

The aggregate amounts of remuneration paid and benefits in kind granted to the Directors and the Supervisors in respect of the financial years ended December 31, 2008, 2009 and 2010 and the three months ended March 31, 2011 were approximately RMB2,834,000, RMB897,000, RMB5,422,000 and RMB593,000, respectively. Save as disclosed under Note [11] to the Accountants' Report as included in Appendix I to this document, no Director or Supervisor received other remuneration or benefits in kind from the Company in respect of the three financial years ended December 31, 2008, 2009 and 2010 and the three months ended March 31, 2011.

Under the existing arrangements currently in force, the aggregate remuneration payable to and benefits-in-kind receivable by the Directors (including five independent non-executive Directors) and Supervisors, in respect of the year ending December 31, 2010 are estimated to be approximately RMB4,722,000 (including RMB330,000 received by the independent non-executive Directors) and RMB700,000, respectively.

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DISCLOSURE OF INTERESTS

1. Directors’ and Supervisors’ Interests and Short Positions

Immediately following completion of the [●], so far as our Directors are aware (taking no account of [●] which may be taken up pursuant to the [●] and [●] which may be issued pursuant to the exercise of the [●]), the following persons will have interests or short position in the Shares, underlying shares or debentures of the Company or any of its associated corporations (within the meaning of Part XV of the [●]) which (i) will have to be notified to the Company and the Hong Kong Stock Exchange pursuant to Divisions 7 and 8 of Part XV of the [●] (including interests and short positions which they are taken or deemed to have under such provisions of the [●]) or (ii) will be required, pursuant to section 352 of the [●], to be entered in the register referred to therein or (iii) will be required to be notified to the Company and the Hong Kong Stock Exchange pursuant to the Model Code for Securities Transactions by Directors of Listed Issuers as contained in Appendix 10 to the [●], in each case once the [●] are [●] on the Hong Kong Stock Exchange. For this purpose, the relevant regulatory provisions as mentioned above shall be deemed to apply to the Supervisors to the same extent as they apply to the Directors:

(i) Interest in our Company

Name of Director	Nature of interest	Class of securities	Number of securities	Approximate percentage of share capital
				(%)
Liang Wengen ⁽¹⁾	Interest of a controlled corporation	A Shares	[4,281,311,012]	[●]
	Beneficial owner	A Shares	[191,050,345]	[●]
	Interest of a controlled corporation	[●]	[●]	[●]
Tang Xiuguo ⁽¹⁾	Interest of a controlled corporation	A Shares	[4,281,311,012]	[●]
	Beneficial owner	A Shares	[31,522,743]	[●]
	Interest of a controlled corporation	[●]	[●]	[●]
Xiang Wenbo ⁽¹⁾	Interest of a controlled corporation	A Shares	[4,281,311,012]	[●]
	Beneficial owner	A Shares	[28,820,793]	[●]
	Interest of a controlled corporation	[●]	[●]	[●]
Yi Xiaogang ⁽¹⁾	Interest of a controlled corporation	A Shares	[4,281,311,012]	[●]
	Beneficial owner	A Shares	[10,807,799]	[●]
	Interest of a controlled corporation	[●]	[●]	[●]

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<u>Name of Director</u>	<u>Nature of interest</u>	<u>Class of securities</u>	<u>Number of securities</u>	<u>Approximate percentage of share capital</u>
				(%)
Zhao Xiangzhang ⁽¹⁾ . .	Interest of a controlled corporation	A Shares	[4,281,311,012]	[●]
	Interest of a controlled corporation		[●]	[●]
Huang Jianlong ⁽¹⁾ . . .	Interest of a controlled corporation	A Shares	[4,281,311,012]	[●]
	Interest of a controlled corporation		[●]	[●]

Note:

(1) [Each of Liang Wengen, Tang Xiuguo, Xiang Wenbo, Yi Xiaogang, Zhao Xiangzhang and Huang Jianlong is interested in 58.24%, 8.75%, 8.00%, 3.00%, 0.38% and 0.08% of Sany Group and is deemed to be interested in the [4,281,311,012] A Shares and [●] [●] held by Sany Group pursuant to the [●].]

(ii) *Interest in associated corporation*

<u>Name of Director</u>	<u>Name of associated corporation</u>	<u>Number of securities</u>	<u>Percentage of shareholding</u>
			(%)
Liang Wengen ⁽¹⁾	Sany Group	[●]	58.24
Tang Xiuguo ⁽¹⁾	Sany Group	[●]	8.75
Xiang Wenbo ⁽¹⁾	Sany Group	[●]	8.00
Yi Xiaogang ⁽¹⁾	Sany Group	[●]	3.00
Zhao Xiangzhang ⁽¹⁾	Sany Group	[●]	0.38
Huang Jianlong ⁽¹⁾	Sany Group	[●]	0.08

Note:

(1) Sany Group is beneficially owned as to 58.24% by Liang Wengen, as to 8.75% by Tang Xiuguo, as to 8.00% by Xiang Wenbo, as to 8.00% by Mao Zhongwu, as to 4.75% by Yuan Jinhua, as to 3.50% by Zhou Fugui, as to 3.00% by Wang Haiyan, as to 3.00% by Yi Xiaogang, as to 1.00% by Wang Zuochun, as to 0.60% by Zhai Xian, as to 0.40% by Zhai Chun, as to 0.38% by Zhao Xiangzhang, as to 0.30% by Duan Dawei and as to 0.08% by Huang Jianlong, and is an associated corporation pursuant to the [●].

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2. Substantial Shareholder

Immediately following the completion of this [●], so far as our Directors are aware (taking no account of [●] which may be taken up pursuant to the [●] and [●] which may be issued pursuant to the exercise of the [●]), the following persons will have interests or short positions in the Shares and underlying Shares which would fall to be disclosed to the Company under the provisions of Divisions 2 and 3 of Part XV of the [●] once the [●] are [●]:

Name of Shareholder	Nature of interest	Class of securities	Number of securities	Approximate percentage of share capital (%)
[Liang Wengen] ⁽¹⁾ . . .	Interest of a controlled corporation	A Shares	[4,281,311,012]	[●]
	Beneficial owner	A Shares	[191,050,345]	[●]
	Interest of a controlled corporation	[●]	[●]	[●]
[Sany Group] ⁽²⁾	Beneficial owner	A Shares	[4,281,311,012]	[●]
	Beneficial owner	[●]	[●]	[●]

Notes:

- (1) [Liang Wengen is interested in 58.24% of Sany Group and is deemed to be interested in the [4,281,311,012] A Shares and [●] [●] held by Sany Group pursuant to the [●].]
- (2) [Sany Group is beneficially owned as to 58.24% by Liang Wengen, as to 8.75% by Tang Xiuguo, as to 8.00% by Xiang Wenbo, as to 8.00% by Mao Zhongwu, as to 4.75% by Yuan Jinhua, as to 3.50% by Zhou Fugui, as to 3.00% by Wang Haiyan, as to 3.00% by Yi Xiaogang, as to 1.00% by Wang Zuochun, as to 0.60% by Zhai Xian, as to 0.40% by Zhai Chun, as to 0.38% by Zhao Xiangzhang, as to 0.30% by Duan Dawei and as to 0.08% by Huang Jianlong. Liang Wengen is deemed to be interested in the [4,281,311,012] A Shares and [●] [●] held by Sany Group pursuant to the [●].]

Save as disclosed herein, but not taking into account any [●] which may be taken up under the [●], our Directors are not aware of any legal person or individual (not being a Director or chief executive of the Company) who will, immediately following the completion of the [●], have any interest or short position in the Shares or underlying Shares which would fall to be disclosed to us under the provisions of Divisions 2 and 3 of Part XV of the Securities and Futures Ordinance, or be directly or indirectly interested in 10% or more of the nominal value of any class of share capital carrying rights to vote in all circumstances at general meetings of any other member of the Company.

3. Disclaimers

Save as disclosed in this [●]:

- (a) none of the Directors or Supervisors is interested in promotion of the Company, or in any assets which have been, within the two years immediately preceding the date of this [●], acquired or disposed of by or leased to, our Company, or are proposed to be acquired or disposed of by or leased to our Company;
- (b) none of the Directors or Supervisors is materially interested in any contract or arrangement subsisting at the date of this [●] which is significant in relation to our business;

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- (c) none of the Directors or Supervisors is a director or employee of a company which has an interest in the share capital of the Company, which would have to be disclosed under the provisions of Divisions 2 and 3 of Part XV of the [●] once the [●] are [●] on the Hong Kong Stock Exchange; and
- (d) as of the Latest Practicable Date, none of the Directors, Supervisors, their respective associates or the controlling shareholder of the Company, had any interest in any of our top five suppliers and top five customers in respect of each of our business segments.

OTHER INFORMATION

1. Estate Duty and Tax Indemnity

Our Directors have been advised by Hunan Qiyuan Law Firm, the legal adviser of our Company as to PRC law, that currently there is no PRC law imposing liability for estate duty and that no material liability for estate duty under PRC law is likely to be imposed on our Company.

2. Litigation

[Save as disclosed in “Business—Legal Proceedings and Compliance”,] as of the Latest Practicable Date, our Company was not involved in any other litigation of material importance, and no litigation or claim of material importance was known to our Directors to be pending or threatened against our Company that would have an effect on our Company’s results of operations or financial condition.

3. No Material Adverse Change

Our Directors confirm that there has been no material adverse change in our Company’s financial or trading position since [●].

4. Preliminary Expenses

The estimated preliminary expenses incurred or proposed to be incurred are approximately [●] and are payable by our Company.

5. Promoters

As mentioned above, Sany Group, Hunan High Tech Investment Company Limited, Xishan Yilida Machinery Company Limited, Henan Xinhua Machinery Manufacturing and Loudi Xinye company Limited are the Promoters of the Company. Save as disclosed in this document, no cash, securities or other benefit has been paid, allotted or given within the two years immediately preceding the date of this [●], or is proposed to be paid, allotted or given, to Sany Group, Hunan High Tech Investment Company Limited, Xishan Yilida Machinery Company Limited, Henan Xinghua Machinery Manufacturing and Loudi Xinye company Limited as the Promoters in connection with the [●] or the related transactions described in this document.

6. [●]

7. Experts

The qualifications of the experts who have given opinions in this document are as follows:

Name	Qualification
Hunan Qiyuan Law Firm	PRC legal advisors
Deloitte Touche Tohmatsu	Certified public accountants
Jones Lang LaSalle Sallmanns Limited	Independent property valuer

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8. Consents of experts

Each of the experts named in paragraph 7 of this Appendix has given and has not withdrawn its written consent to the issue of this document with the inclusion of its report and/or letter and/or valuation certificate and/or opinion and/or the references to its name included herein in the form and context in which it is respectively included.

9. Interests of experts in our Company

None of the persons named in paragraph 7 of this Appendix is interested beneficially or otherwise in any Shares or shares of any member of our Group or has any right or option (whether legally enforceable or not) to subscribe for or nominate persons to subscribe for any shares or securities in any member of our Group.

None of the experts named in paragraph 7 of this Appendix is interested in the promotion of our Company, or in any assets which have been, within the two years immediately preceding the date of this document, acquired or disposed of by or leased to, our Company, or are proposed to be acquired or disposed of by or leased to our Company.

10. Miscellaneous

Save as disclosed in this document:

- (a) within the two years immediately preceding the date of this [●], our Company has not issued nor agreed to issue any share or loan capital fully or partly paid either for cash or for a consideration other than cash;
- (b) no share or loan capital of our Company, if any, is under option or is agreed conditionally or unconditionally to be put under option;
- (c) our Company has not issued any founder or management or deferred shares;
- (d) our Company has no outstanding convertible debt securities or debentures;
- (e) within the two years immediately preceding the date of this [●], no commission, discount, brokerage or other special term has been granted in connection with the issue or sale or any capital of our Company;
- (f) there is no arrangement under which future dividends are waived or agreed to be waived;
- (g) there have been no interruption in our business which may have or have had a significant effect on the financial position in the last 12 months; and
- (h) other than the A Shares of the Company which are listed on the SHSE, no part of the equity or debt securities of our Company, if any, is currently listed on or dealt in on any stock exchange or trading system, and no such [●] or permission to list on any stock exchange other than [●].

Our Company currently does not intend to apply for the status of a sino-foreign investment joint stock limited company and does not expect to be subject to the Sino-foreign Joint Venture Law of the PRC.