

# Main Patents

## ■ Patents registered in 2014

Registration Number	Name	Inventor(s)
Japan Patent 5501015	Electric Fan	Naruhiko Kudou, Tomoaki Ikeda, Haruhisa Maruyama
Japan Patent 5525408	Electric Machine Apparatus	Satoshi Sugita, Yasushi Misawa, Yu Qi Tang
Japan Patent 5525429	Counter-Rotating Axial-Flow Fan	Honami Osawa, Yoshihiko Aizawa, Co-invented with the University of Tokyo, FUJITSU Japan
Japan Patent 5528421	Motor Control Device	Yuji Ide, Masakazu Sakai
Japan Patent 5558182	Heat-Dissipation Structure for Electric Apparatus	Toshihito Miyashita, Hiroshi Hioki, Masakazu Chikyu
Japan Patent 5574628	Centrifugal Fan	Kevin Yen, Hiromitsu Kuribayashi
Japan Patent 5574762	Motor Control Device	Yuji Ide
Japan Patent 5587258	Work Guidance System	Norio Nakamura, Shigejiro Miyata
Japan Patent 5605997	Stator for Rotation Electrical Machine	Masaaki Ohashi, Youichi Horiuchi, Yasushi Yoda, Kouji Nakatake
Japan Patent 5606049	Linear Synchronous Motor	Yu Qi Tang, Takashi Matsushita, Satoshi Sugita
Japan Patent 5606387	Motor Control System Including Electrical Insulation Deterioration Detecting System	Yuji Ide
Japan Patent 5612158	Master-Slave Communication System and Communication Method Thereof	Makoto Kitazawa, Narumi Yanagisawa
Japan Patent 5620526	Motor Control Device	Yuji Ide, Satoshi Yamazaki
Japan Patent 5620527	Motor Control Device	Yuji Ide, Satoshi Yamazaki
Japan Patent 5623757	Motor Control Method and Motor Control System	Yuji Ide
Japan Patent 5629467	Linear Synchronous Motor	Yu Qi Tang, Satoshi Sugita
Japan Patent 5629505	Centrifugal Fan	Kevin Yen, Jirou Watanabe, Hiromitsu Kuribayashi, Shigekazu Mitomo
Japan Patent 5634782	Centrifugal Fan	Kevin Yen, Hiromitsu Kuribayashi
Japan Patent 5652975	Motor Control Device	Yuji Ide, Masahisa Koyama, Satoshi Yamazaki
Japan Patent 5652977	Motor Control Device	Yuji Ide, Satoshi Yamazaki, Michio Kitahara
Japan Patent 5656671	Motor Condition Inspection Method and Motor Characteristic Inspecting Device	Akihiko Takahashi
Japan Patent 5658785	Motor Control System	Yuji Ide, Shunichi Miyazaki
Japan Patent 5671379	Mobile Power Supply Vehicle	Nobuya Ootsuki, Mamoru Tomioka
Japan Patent 5695711	Rotary Type Motor	Satoshi Sugita, Yasushi Misawa, Yu Qi Tang, Shigenori Miyairi
EP Patent 2284498	OPTICAL ENCODER DEVICE	Yoshihiro Shoji
EP Patent 2362287	MOTOR CONTROL METHOD AND MOTOR CONTROL SYSTEM	Yuji Ide
U.S. Patent 8680800	DRIVING SYSTEM FOR FAN AND METHOD OF DRIVING FAN	Shigekazu Mitomo, Kevin Yen
U.S. Patent 8690528	COUNTER-ROTATING AXIAL FLOW FAN	Honami Osawa, Yoshihiko Aizawa, Co-invented with the University of Tokyo, FUJITSU Japan
U.S. Patent 8692428	LINEAR ACTUATOR	Shigenori Miyairi, Kouji Nakatake
U.S. Patent 8753076	CENTRIFUGAL FAN	Kevin Yen, Hiromitsu Kuribayashi
U.S. Patent 8764375	COUNTER-ROTATING AXIAL FLOW FAN	Honami Osawa, Yoshihiko Aizawa, Co-invented with the University of Tokyo, FUJITSU Japan
U.S. Patent 8764418	CENTRIFUGAL FAN	Kevin Yen, Hiromitsu Kuribayashi
U.S. Patent 8770052	LINEAR ACTUATOR	Kouji Nakatake, Kazuyuki Kitazawa, Shigenori Miyairi
U.S. Patent 8770943	AXIAL FLOW FAN	Katsumichi Ishihara

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<b>U.S. Patent 8807919</b>	COUNTER-ROTATING AXIAL FLOW FAN	Honami Osawa, Yoshihiko Aizawa, Co-invented with the University of Tokyo, FUJITSU Japan
<b>U.S. Patent 8847525</b>	MOTOR CONTROL DEVICE AND CONTROL METHOD OF THE SAME	Noriaki Taniguchi, Takahisa Toda, You Muramatsu
<b>U.S. Patent 8860279</b>	Generator Core	Toshihito Miyashita
<b>U.S. Patent 8878125</b>	ENCODER WITH GEAR MECHANISM AND OPTICAL ENCODER DEVICE	Toru Miyajima, Toshiaki Ayuzawa, Yoshihiro Shoji
<b>U.S. Patent 8896190</b>	ELECTRIC APPARATUS WITH STATOR CORE	Akio Miyahara, Masaaki Ohashi, Kou Chou
<b>U.S. Patent 8896821</b>	ENCODER	Tooru Miyajima, Yoshi Ishizuka, Shouji Ito
<b>U.S. Patent 8917087</b>	MOVING MAGNETIC FIELD GENERATING APPARATUS	Satoshi Sugita, Yasushi Misawa, Yu Qi Tang, Shigenori Miyairi
<b>U.S. Patent 8918301</b>	MOTOR CONDITION INSPECTION METHOD AND MOTOR CHARACTERISTIC INSPECTING DEVICE	Akihiko Takahashi
<b>U.S. Patent 8928313</b>	MAGNETIC ENCODER WITH IMPROVED RESOLUTION	Satoshi Sugita, Yu Qi Tang, Yasushi Misawa
<b>Canada Patent 2668092</b>	COUNTER-ROTATING AXIAL-FLOW FAN	Jiro Watanabe, Toshiya Nishizawa, Yasuhiro Maruyama
<b>Philippine Patent 1-2008-000014</b>	AXIAL-FLOW FAN	Toshiyuki Nakamura, Shigekazu Mitomo, Atsushi Yanagisawa
<b>Philippine Patent 1-2009-500830</b>	COUNTER-ROTATING AXIAL-FLOW FAN	Jiro Watanabe, Toshiya Nishizawa, Yasuhiro Maruyama
<b>Philippine Patent 1-2010-000057</b>	CENTRIFUGAL FAN	Kevin Yen, Hiromitsu Kuribayashi
<b>Philippine Patent 1-2010-000066</b>	ELECTRICAL APPARATUS	Haruhisa Maruyama, Tomoaki Ikeda, Takahisa Toda
<b>Philippine Patent 1-2010-500965</b>	METHOD OF CONTROLLING COUNTER-ROTATING AXIAL-FLOW FAN	Honami Osawa, Naruhiko Kudou, Yoshihiko Aizawa
<b>Philippine Patent 1-2010-502952</b>	AXIAL FLOW FAN	Toshiyuki Nakamura, Masahiro Koike, Naoya Inada
<b>Korea Patent 10-1290563</b>	MOTOR CONTROL DEVICE	Yuji Ide, Michio Kitahara
<b>Korea Patent 10-1378050</b>	CONTROL SYSTEM FOR SYNCHRONOUS ELECTRIC MOTOR	Yuji Ide
<b>Korea Patent 10-1406832</b>	LINEAR MOTOR	Yu Qi Tang, Satoshi Sugita
<b>Korea Patent 10-1436452</b>	STATOR FOR MOTOR	Toshihito Miyashita, Hiroshi Hioki
<b>Korea Patent 10-1481472</b>	OPTICAL ENCODER DEVICE THAT INCLUDES A MOVEABLE SLIT PLATE AND A STATIONARY SLIT PLATE	Yoshihiro Shoji, Yoshi Ishizuka, Shoji Ito
<b>Korea Patent 10-1481473</b>	MOTOR CONTROL SYSTEM INCLUDING ELECTRICAL INSULATION DETERIORATION DETECTING SYSTEM	Yuji Ide
<b>Taiwan Patent I429826</b>	COUNTER-ROTATING AXIAL-FLOW FAN	Toshiya Nishizawa, Yasuhiro Maruyama, Hayato Murayama
<b>Taiwan Patent I435003</b>	METHOD OF CONTROLLING COUNTER-ROTATING AXIAL-FLOW FAN	Honami Osawa, Naruhiko Kudou, Yoshihiko Aizawa
<b>Taiwan Patent I455451</b>	LINEAR SYNCHRONOUS MOTOR	Yu Qi Tang, Satoshi Sugita
<b>Taiwan Patent I459684</b>	LINEAR MOTOR	Satoshi Sugita, Yasushi Misawa, Yu Qi Tang
<b>Taiwan Patent I460353</b>	COUNTER-ROTATING AXIAL-FLOW FAN	Toshiya Nishizawa, Yasuhiro Maruyama, Hayato Murayama
<b>Taiwan Patent I462436</b>	BRUSHLESS MOTOR STATOR	Izumi Onozawa, Masashi Miyazawa
<b>China Patent ZL200610160492.6</b>	AXIAL-FLOW FAN	Masashi Miyazawa, Toshiki Ogawara, Tomoaki Ikeda
<b>China Patent ZL201010002029.5</b>	LINEAR MOTOR	Satoshi Sugita, Yasushi Misawa, Yu Qi Tang
<b>China Patent ZL201010116854.8</b>	SMALL-SIZED MOTOR	Daigo Kuraishi, Akira Shimizu
<b>China Patent ZL201010117430.3</b>	CENTRIFUGAL FAN	Kevin Yen, Hiromitsu Kuribayashi

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China Patent ZL201010127668.4	Sensor-Free AC Motor Control System	Yuji Ide, Satoshi Yamazaki
China Patent ZL201010136292.3	Controller for Three-Phase Synchronous Electric Motor with Faulty Wiring Detecting Function	Yuji Ide
China Patent ZL201010190514.X	HEAT RADIATION STRUCTURE OF ELECTRIC APPARATUS	Toshihito Miyashita, Hiroshi Hioki, Masakazu Chikyu
China Patent ZL201010190555.9	STATOR FOR ROTARY ELECTRIC MACHINE	Masaaki Ohashi, Youichi Horiuchi, Yasushi Yoda, Kouji Nakatake
China Patent ZL201010202787.1	CENTRIFUGAL FAN	Kevin Yen, Hiromitsu Kuribayashi
China Patent ZL201010239619.X	METHOD OF INSPECTING MOTOR CONDITION AND DEVICE FOR INSPECTING MOTOR CHARACTERISTICS	Akihiko Takahashi
China Patent ZL201010241817.X	OPTICAL ENCODER DEVICE	Yoshihiro Shoji
China Patent ZL201010241849.X	Utility-Connected Inverter Unit and Control Method Thereof	Minoru Yanagisawa, Takashi Kobayashi
China Patent ZL201010251046.2	CENTRIFUGAL FAN	Kevin Yen, Hiromitsu Kuribayashi
China Patent ZL201010531514.1	POWER SUPPLY SYSTEM FOR DRIVING MOTOR	Yuji Ide
China Patent ZL201010535736.0	POWER SUPPLY SYSTEM FOR DRIVING MOTOR AND REGENERATION METHOD USING THE SAME	Yuji Ide
China Patent ZL201010557782.0	MAGNETIC ABSOLUTE ENCODER	Shigeharu Katou, Kazuhiro Makiuchi, Shoji Itou, Tooru Miyajima, Tomohito Yamazaki, Masato Matsuda, Toshiaki Ayuzawa
China Patent ZL201010588889.1	LINEAR ACTUATOR	Shigenori Miyairi, Kouji Nakatake
China Patent ZL201010588897.6	LINEAR ACTUATOR	Kouji Nakatake, Kazuyuki Kitazawa, Shigenori Miyairi
China Patent ZL201010589437.5	COUNTER-ROTATING AXIAL FLOW FAN	Honami Osawa, Yoshihiko Aizawa, Co-invented with the University of Tokyo, FUJITSU Japan
China Patent ZL201010589452.X	COUNTER-ROTATING AXIAL FLOW FAN	Honami Osawa, Yoshihiko Aizawa, Co-invented with the University of Tokyo, FUJITSU Japan
China Patent ZL201010589455.3	COUNTER-ROTATING AXIAL FLOW FAN	Honami Osawa, Yoshihiko Aizawa, Co-invented with the University of Tokyo, FUJITSU Japan
China Patent ZL201010606102.X	LINEAR SYNCHRONOUS MOTOR	Yu Qi Tang, Satoshi Sugita
China Patent ZL201110030378.2	METHOD OF CONTROLLING MOTOR AND CONTROLLING SYSTEM	Yuji Ide, Michio Kitahara
China Patent ZL201110035030.2	LINEAR SYNCHRONOUS MOTOR	Yu Qi Tang, Satoshi Sugita
China Patent ZL201110047070.9	CONNECTING STRUCTURE FOR ELECTRIC CABLES AND ELECTRIC APPARATUS	Toshihito Miyashita, Hiroshi Hioki, Masakazu Chikyu
China Patent ZL201110048592.0	MOTOR CONTROL METHOD AND MOTOR CONTROL SYSTEM	Yuji Ide
China Patent ZL201110102540.7	FAN WITH REDUCED NOISE	Naoya Inada, Toshiyuki Nakamura, Toshiki Ogawara, Yoshinori Miyabara