

Main Patents

■ Patents Registered in 2009

Registration Number	Name	Inventor(s)
4272218	Uninterruptible Power Supply Device	Yoshiaki Okui, Shoichi Ohta, Naoya Nakamura
4358213	Outdoor Use Radiator Equipment	Tetsuya Kobayashi
4361598	Sensorless AC Motor Control Equipment	Yuuji Ide, Satoshi Yamazaki
4394302	Uninterruptible Power Supply Device	Muneo Suita Co-developed with NTT FACILITIES, INC., NTT DATA INTELLILINK CORPORATION
4391340	Positioning Equipment and Determination Method of the Machine Origin for Positioning Equipment	Yoshiyuki Murata, Hidenao Shoda Co-developed with Yushin Precision Equipment Co., Ltd
4397465	Mounting Structure of Axis on Rotation Electrical Machine	Toshiki Ogawara, Toshio Shinohara, Michihiro Suzuki
4397832	Axial Flow Fan	Katsumichi Ishihara, Honami Osawa
4410670	Uninterruptible Power Supply Device	Yoshiaki Okui
4409976	Electronic Parts Cooling Unit	Tomoaki Ikeda, Masashi Miyazawa, Masayuki Iijima, Kouji Ueno Co-developed with Intel Corporation
4409921	Motor Equipment and Photo Processing Equipment	Shared with Noritsu Koki Co., Ltd.
4410016	Uninterruptible Power Supply Device	Shinichi Morita, Naohiko Shiokawa, Hiroyuki Kaneko
4422736	Motor	Yasushi Yoda, Masaaki Ohashi, Kouji Nakatake
4431263	Electronic Parts Cooling Unit	Yuuichi Kodaira, Haruhisa Maruyama, Naoko Ishiwatari
4431431	Rotation Electrical Machine	Yuuji Yamamoto
4450479	Cooling Unit	Michinori Watanabe, Michihiro Suzuki, Toshiyuki Nakamura
4450682	Servo Motor Control Equipment and Its Control Method	Yoshiyuki Murata, Hidenao Shoda Co-developed with Yushin Precision Equipment Co., Ltd
4450723	Gear Train and Drive Equipment	Akira Koike, Hisayuki Miyajima
4457156	Motor with Electromagnetic Brake	Toshihito Miyashita, Masahiro Yamaguchi
EP Patent 1139548	INTERIOR PERMANENT MAGNET SYNCHRONOUS MOTOR	Toshihito Miyashita, Satoshi Onodera, Manabu Matsushita
EP Patent 1764511	COUNTER-ROTATING AXIAL-FLOW FAN	Katsumichi Ishihara, Honami Osawa
U.S. Patent 7432704	INDUCTOR-TYPE RESOLVER	Sakae Kishi, Kazuhiro Makiuchi
U.S. Patent 7445423	COUNTER-ROTATING AXIAL-FLOW FAN	Katsumichi Ishihara, Honami Osawa
U.S. Patent 7482716	LINEAR MOTOR WITH CLAW-POLE ARMATURE UNITS	Satoshi Sugita, Yu Qi Tang
U.S. Patent 7501724	MOVABLE ASSEMBLY FOR CYLINDER-TYPE LINEAR MOTOR	Yu Qi Tang, Satoshi Sugita
U.S. Patent 7527085	ELECTRONIC COMPONENT COOLING APPARATUS	Tomoaki Ikeda, Masashi Miyazawa, Masayuki Iijima, Kouji Ueno Co-developed with Intel Corporation
U.S. Patent 7528519	PERMANENT MAGNET ROTARY MOTOR	Toshihito Miyashita
U.S. Patent 7541702	BRUSHLESS FAM MOTOR	Naoki Murakami, Hiromitsu Kuribayashi, Katsumichi Ishihara
U.S. Patent 7554238	MULTI-WINDING MOTOR WITH REDUCED IMPEDANCE UNBALANCE	Toshihito Miyashita, Shintarou Koichi, Kazuyoshi Murata, Masanori Sakai

Registration Number	Name	Inventor(s)
U.S. Patent 7560844	PERMANENT MAGNET ROTARY MOTOR	Toshihito Miyashita, Satoshi Onodera, Kazuyuki Kitazawa, Masahiro Koyama, Kazuhiko Takizawa
U.S. Patent 7569953	ROTOR FOR HYBRID TYPE STEPPING MOTOR AND MANUFACTURING METHOD THEREOF	Akira Koike, Ikuo Takeshita
U.S. Patent 7569961	ROTOR FOR MOTORS	Toshihito Miyashita
U.S. Patent 7569965	STATOR FOR MOTOR	Toshihito Miyashita, Hiroshi Hioki
U.S. Patent 7579714	AN UNINTERRUPTIBLE POWER SUPPLY APPARATUS	Yoshiaki Okui
U.S. Patent 7582991	LINEAR MOTOR	Satoshi Sugita, Yasushi Misawa
U.S. Patent 7583003	STATOR FOR MOTORS	Toshihito Miyashita, Hiroshi Hioki
U.S. Patent 7612468	UNINTERRUPTIBLE POWER SUPPLY DEVICE WITH CIRCUIT FOR DEGRADATION JUDGMENT OF STORAGE BATTERY	Yoshiaki Okui
Taiwan Patent I301868	Axial Flow Fan	Katsumichi Ishihara, Honami Osawa
China Patent ZL03826118.9	Counter Rotating Axial Flow Fan	Honami Osawa, Katsumichi Ishihara, Toshiyuki Nakamura, Takashi Kaise, Yoshihiko Aizawa, Seiji Nishimura
China Patent ZL200410068292.9	Moving Parts for Cylinder-type Linear Motor	Yu Qi Tang, Satoshi Sugita
China Patent ZL200410074840.9	Linear Motor	Satoshi Sugita, Yasushi Misawa
China Patent ZL200480007201.9	Control Equipment for Motor	Yuuji Ide
China Patent ZL200510005999.X	Rotary Motor with Built-in Permanent Magnet and Method of Determining Its Pole Arc Rate	Toshihito Miyashita, Satoshi Onodera
China Patent ZL200510006304.X	Electronic Parts Cooling Unit	Tomoaki Ikeda, Masashi Miyazawa, Masayuki Iijima, Kouji Ueno Co-developed with Intel Corporation
China Patent ZL200510072624.5	Permanent Magnet Rotary Motor	Toshihito Miyashita, Satoshi Onodera
China Patent ZL200510078876.9	Fan Equipment and Heat Generator Cooling Equipment	Michinori Watanabe, Toshiki Ogawara, Haruhisa Maruyama
China Patent ZL200510091741.6	Permanent Magnet Rotary Motor	Toshihito Miyashita, Shintarou Koichi
China Patent ZL200610151569.3	Heat Generator Cooling Equipment and Heatsink	Masashi Miyazawa, Tomoaki Ikeda, Toshiki Ogawara
Philippine Patent 1-2005-000048	ELECTRONIC COMPONENT COOLING APPARATUS	Tomoaki Ikeda, Masashi Miyazawa, Masayuki Iijima, Kouji Ueno Co-developed with Intel Corporation
Philippine Patent 1-2006-000250	HEAT EMITTING ELEMENT COOLING APPARATUS AND HEAT SINK	Masashi Miyazawa, Tomoaki Ikeda, Toshiki Ogawara
Philippine Patent 1-2006-000439	COUNTER-ROTATING AXIAL-FLOW FAN	Katsumichi Ishihara, Honami Osawa