

Main Patents

Patents registered in 2003

Registration Number	Title	Inventors
3404349	Uninterruptible Power Supply and Its Operation Method	Satoshi Atou, Shared with NTT Data Inc.
3414958	Winding Method and Winding Machine	Kazuyuki Kitazawa, Yutaka Takeuchi, Shigeto Murata
3423485	Shaft Structure	Kazuyuki Kitazawa, Ryouichi Hoyano
3439954	Outer Rotor Type Stepping Motor	Hisayuki Miyajima, Shigenori Miyairi
3432356	Manufacturing Method of Divided Type Stator for Rotary Electric Machinery	Kunitoshi Kurihara, Masahiro Koyama, Kazuyuki Kitazawa, Kazuhito Yamaura
3431409	Armature for Rotary Electric Device	Hidenori Morita, Akio Miyahara
3428864	Motor with Cooling Fan	Shinjiro Yokozawa, Yutaka Takeuchi, Takashi Sekiguchi, Hideo Kidoku
3428859	Motor with Cooling Fan and Cooling Fan	Shinjiro Yokozawa, Yutaka Takeuchi, Masanori Kawai, Hideo Kidoku
3432380	Brushless Fan Motor and Its Manufacturing Method	Kesatsugu Watanabe, Honami Oosawa, Hitoshi Takizawa, Osamu Kawakami
3432370	Winding Method of Divided Core	Kazuyuki Kitazawa, Yutaka Takeuchi, Shintarou Koichi, Takuya Iwashita
3450099	Method of Identifying the Life of a Brake for a Motor, and Its Device	Keigo Kikuchi
3454345	Inverter Device	Yoshihiro Sekino, Minoru Yanagisawa
3450124	Manufacturing Method of Stator for Rotary Electric Machinery	Tensho Nakamura, Shinjiro Yokozawa, Masahiro Koyama
3466448	DC-DC Converter	Yoshihiro Sekino
3454707	Electronic Component Cooling Apparatus	Yuichi Kodaira, Toshiki Ogawara, Nobumasa Kodama
3506907	Interface Circuit of Motor Control Device	Shigejiro Miyata, Shingo Takeuchi
3502075	Stepping Motor Driving Device	Katsuhiko Oono, Toshikatsu Ichida, Shigeo Ebinuma
3514948	Stator for Rotary Electric Machinery, and Its Manufacturing Method	Kazuyuki Kitazawa, Masahiro Koyama, Yutaka Takeuchi, Kiyoshi Uchibori
3514984	Electromagnetic Induction Type Rotary Sensor	Hideyuki Ishii, Shigeharu Katou, Sakae Kishi
3514953	Cooling Fan Drive Control Device of Motor with Cooling Fan	Shinjiro Yokozawa, Hideo Kidoku, Takashi Sekiguchi, Masanori Kawai
3510120	Air Flow Fan with Waterproof Structure	Michinori Watanabe, Kesatsugu Watanabe, Akiyoshi Kuroda
3510092	Unit Type Electric Machine Control Device and Motor Control Device	Yoshihiko Oouchi, Nobuo Arakawa, Shared with Japan Aviation Electronics Industry, Limited
3520961	Inverter Device	Minoru Yanagisawa, Yuuji Wada
U.S. Patent 643747B1	SINGLE-BEARING PERMANENT-MAGNET MOTOR	Toshiki Ogawara, Tomoaki Ikeda
U.S. Patent 6496394B2	UNINTERRUPTIBLE POWER SYSTEM	Hiroyuki Hanaoka, Masahiko Nagai, Minoru Yanagisawa
U.S. Patent 6551074B2	CENTRIFUGAL FAN WITH WATERPROOF STRUCTURE	Naruhiko Kudou, Kesatsugu Watanabe
U.S. Patent 6556459B2	UNINTERRUPTIBLE POWER SUPPLY AND METHOD OF TURNING OFF AC SWITCH FOR UNINTERRUPTIBLE POWER SUPPLY	Yoshiaki Okui, Minoru Yanagisawa
U.S. Patent 6556601B2	METHOD FOR COMPENSATING FOR OUTPUT OF SEMICONDUCTOR LUMINOUS DEVICE AND APPARATUS THEREFOR	Shin Nagata
U.S. Patent 6597079B2	INTERIOR PERMANENT MAGNET SYNCHRONOUS MOTOR	Toshihito Miyashita, Satoru Onodera, Manabu Matsushita

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U.S. Patent 6611442B2	CONTROLLED RECTIFIER EQUIPMENT WITH SINUSOIDAL WAVEFORM SUPPLY CURRENT	Hiroyuki Hanaoka, Hiroshi Sakaba
U.S. Patent 6619385B2	COOLING APPARATUS FOR ELECTRONIC ELEMENT	Michinori Watanabe, Michihiro Suzuki, Toshiyuki Nakamura
U.S. Patent 6621699B2	ELECTRONIC COMPONENT COOLING APPARATUS	Michihiro Watanabe, Toshiki Ogawara, Haruhisa Maruyama
Taiwan Patent 165598	Electronic Component Cooling Apparatus	Yuichi Kodaira, Haruhisa Maruyama, Naoko Ishiwatari
Taiwan Patent 173189	Electronic Component Cooling Apparatus	Yuichi Kodaira
Taiwan Patent 178376	Rotary Electric Machinery	Honami Oosawa, Munenori Takakuwa, Ryuuji Kobayashi, Yukio Oouchi
Taiwan Patent 180155	Permanent Magnet Installed Synchronous Motor	Toshihito Miyashita, Satoru Onodera, Manabu Matsushita
Taiwan Patent 199599	Filter Unit for Air Flow Fan	Hiromitsu Kuribayashi, Tomoaki Ikeda, Yoshikazu Ooya