

List of Technical Award Engineers of 58th JEMA of 2008

Heavy electric category			
Prize	Title of Paper	Division	Name
Superior Award	Development of "Silent fan"	Cooling Systems Division, Design Dept. Cooling Systems Division, Design Dept.	Shigekazu Mitomo Atsushi Yanagisawa
Superior Award	Development of uninterruptible power supply "SANUPS E33A"	Power Systems Division, 1st Design Dept. Power Systems Division, 1st Design Dept.	Yoshiaki Okui Shouichi Ohta
Superior Award	Development of DC/AC inverter "SANUPS D11A"	Power Systems Division, 2nd Design Dept. Power Systems Division, 2nd Design Dept.	Chiaki Seki Satoru Shimizu
Superior Award	Development of AC servo amplifier SANMOTION R ADVANCED MODEL	Servo Systems Division, 2nd Design Dept. Servo Systems Division, 2nd Design Dept.	Michio Kitahara Yasutaka Narusawa
	Development of "Large air flow fan"	Cooling Systems Division, Design Dept. Cooling Systems Division, Design Dept.	Kakuhiko Hata Hidetoshi Oobayashi
	Development of the SANMOTION Model No. PB AC input system	Servo Systems Division, 2nd Design Dept. Servo Systems Division, 3rd Design Dept.	Ryuichi Yanagisawa Takehiro Matsumoto
Manufacturing category			
Prize	Title of Paper	Division	Name
Superior Award	Development of small-radius AC Servo Motor "Sensor assembly adjustment device"	Servo Systems Division, Production Technology Dept. Servo Systems Division, 1st Production Dept.	Kiyotaka Kameyama Kazuhiro Yoshihara
Superior Award	Development of "Component delivery guidance system"	Servo Systems Division, Production Technology Dept. Servo Systems Division, Production Technology Dept.	Yoshio Nakamura Masato Akachi
	Technology to increase magnetized yoke life through motor design	Cooling Systems Division, Production Dept, Production Technology Section Cooling Systems Division, Production Dept, Production Technology Section	Mitsutaka Kubota Kiyoshi Mutou

Division names are those at the time of nomination.



Shigekazu Mitomo



Atsushi Yanagisawa



Yoshiaki Okui



Shouichi Ohta



Chiaki Seki



Satoru Shimizu



Michio Kitahara



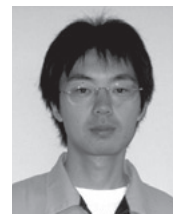
Yasutaka Narusawa



Kakuhiko Hata



Hidetoshi Oobayashi



Ryuichi Yanagisawa



Takehiro Matsumoto



Kiyotaka Kameyama



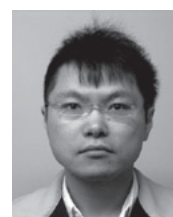
Kazuhiro Yoshihara



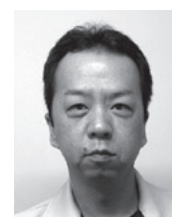
Yoshio Nakamura



Masato Akachi



Mitsutaka Kubota



Kiyoshi Mutou

Main Patents

■ Patents registered in 2008

Registration Number	Name	Inventor(s)
4083203	CONTROL SYSTEM FOR SYNCHRONOUS ELECTRIC MOTOR	Yuuji Ide
4091590	SWITCHING CIRCUIT	Makoto Kitazawa
4093687	ELECTRONIC COMPONENT COOLING APPARATUS	Yuichi Kodaira
4100855	SEALING STRUCTURE AND ROTARY ELECTRIC MACHINE	Shintarou Koichi, Hideyuki Ishii
4101201	METHOD OF OPERATING DISTRIBUTED POWER SOURCES	Takashi Kobayashi, Norio Tazawa, Minoru Yanagisawa Joint inventor: SHARP CORPORATION
4101267	POWER CONVERSION SYSTEM	Akinori Matsuzaki
4108428	BRUSHLESS DIRECT CURRENT FAN MOTOR	Masato Murata, Naruhiko Kudou, Munenori Takakuwa
4108488	WATERTIGHT BRUSHLESS FAN MOTOR	Naruhiko Kudou, Kakuhiko Hata
4111672	ARMATURE FOR LINEAR MOTOR	Satoshi Sugita, Yasushi Misawa, Hideyuki Ishii, Nobuji Suzuki, Satoru Onodera
4118841	CONTROLLER APPARATUS FOR SYNCHRONOUS MOTOR AND CONTROLLING METHOD THEREOF	Yoshinori Kimura, Nobuo Arakawa
4122250	ELECTRONIC COMPONENT COOLING APPARATUS	Masashi Miyazawa, Kouji Ueno, Masayuki Iijima
4127893	COOLING UNIT FITTING AND ELECTRONIC COMPONENT COOLING APPARATUS	Michinori Watanabe, Toshiki Ogawara
4128055	HEAT-EMITTING ELEMENT COOLING APPARATUS	Michinori Watanabe, Toshiki Ogawara, Haruhisa Maruyama, Masayuki Iijima
4128194	COUNTER-ROTATING AXIAL-FLOW FAN	Katsumichi Ishihara, Honami Oosawa
4137101	ROTARY ELECTRIC MACHINE	Masaaki Oohashi, Shigenori Miyairi, Ikuo Takeshita
4140992	POWER CONVERSION SYSTEM FOR DRIVING MOTOR AND MOTOR CONTROL SYSTEM	Yuuji Ide, Keigo Kikuchi, Masahisa Koyama
4144972	SINGLE-BEARING PERMANENT-MAGNET MOTOR	Toshiki Ogawara, Tomoaki Ikeda
4163803	ENCODER	Yoshi Ishizuka
4163917	HEAT-EMITTING ELEMENT COOLING APPARATUS	Michinori Watanabe, Masayuki Iijima, Haruhisa Maruyama,
4190744	MAN-POWERED GENERATOR	Akinori Matsuzaki, Hiroshi Yamada, Yasuhiko Kobayashi
4206194	SYSTEM AND METHOD FOR CONTROLLING HYDRAULIC DRIVE SYSTEM	Masahiko Itoh, Hiroshi Yoshikawa Joint inventor: TOYOOKI KOGYO
4206228	LINEAR/ROTARY ACTUATOR AND WINDING MACHINE INCLUDING SAME	Kazuyuki Kitazawa, Hiroshi Ooki, Yutaka Takeuchi, Shigeto Murata
4231544	MOTOR CONTROL SYSTEM	Yuuji Ide
4264021	CYLINDER TYPE LINEAR SYNCHRONOUS MOTOR	Nobuji Suzuki, Satoshi Sugita, Masato Murata
4264064	COMBINED EQUIPMENT SELECTION SYSTEM USING NETWORK	Masatoshi Kanayama, Akira Katou, Noboru Ishizeki
U.S. Patent 7329973	ROTARY ELECTRIC MACHINE	Masaaki Oohashi, Shigenori Miyairi, Ikuo Takeshita
U.S. Patent 7330770	FAN SELECTION METHOD AND FAN SELECTION DEVICE	Akira Katou Joint Inventor: Office JI
U.S. Patent 7331756	AXIAL-FLOW FAN UNIT AND HEAT-EMITTING ELEMENT COOLING APPARATUS	Michinori Watanabe, Toshiki Ogawara, Haruhisa Maruyama
U.S. Patent 7339290	LINEAR MOTOR	Satoshi Sugita, Yasushi Misawa
U.S. Patent 7358638	METHOD OF DETERMINING POLE ARC RATIO OF INTERIOR PERMANENT MAGNET ROTARY MOTOR AND INTERIOR PERMANENT MAGNET ROTARY MOTOR	Toshihito Miyashita, Satoru Onodera
U.S. Patent 7367382	HEAT-EMITTING ELEMENT COOLING APPARATUS AND HEAT SINK	Masashi Miyazawa, Tomoaki Ikeda, Toshiki Ogawara
U.S. Patent 7385317	LINEAR MOTOR NOT REQUIRING YOKE	Satoshi Sugita, Yu Qi Tang
U.S. Patent 7411327	HEAT-EMITTING ELEMENT COOLING APPARATUS	Michinori Watanabe, Toshiki Ogawara, Haruhisa Maruyama
EPO Patent 1276202	UNINTERRUPTIBLE POWER SUPPLY AND METHOD OF TURNING OFF AC SWITCH FOR UNINTERRUPTIBLE POWER SUPPLY	Yoshiaki Okui, Minoru Yanagisawa

■ Patents registered in 2008

Korean Patent 10-0848852	INTERIOR PERMANENT MAGNET SYNCHRONOUS MOTOR	Toshihito Miyashita, Satoru Onodera, Manabu Matsushita
China Patent ZL200510107513.3	CONTROLLER APPARATUS FOR SYNCHRONOUS MOTOR AND CONTROLLING METHOD THEREOF	Yoshinori Kimura, Nobuo Arakawa
Taiwanese Patent I297748	AXIAL FLOW FAN	Katsumichi Ishihara, Honami Oosawa
Philippine Patent 1-2002-000811	WATERTIGHT BRUSHLESS FAN MOTOR	Naruhiko Kudou, Hisashi Takizawa, Osamu Kawakami
Philippine Patent 1-2003-000404	HEAT-EMITTING ELEMENT COOLING APPARATUS	Michinori Watanabe, Toshiki Ogawara, Haruhisa Maruyama, Masayuki Iijima
Philippine Patent 1-2003-000503	METHOD OF JOINING RUBBER MAGNET TO YOKE	Noriaki Ogawa, Masato Akachi, Akihiko Okubo, Hisashi Ueno, Takashi Miyamoto
Philippine Patent 1-2004-000335	LONG LIFE FAN MOTOR	Naruhiko Kudou, Hiromitsu Kuribayashi, Toshiya Nishizawa
Philippine Patent 1-2005-00167	METHOD FOR DETECTING OUTPUT CURRENT OF INVERTER AND DEVICE THEREFOR	Masahiko Nagai, Hiroyuki Hanaoka
Philippine Patent 1-2005-501625	AXIAL-FLOW FAN WITH DOUBLE IMPELLERS	Honami Oosawa, Katsumichi Ishihara, Toshiyuki Nakamura, Takashi Kaise, Yoshihiko Aizawa, Seiji Nishimura

Corporate Best Invention Award (Outstanding Invention Award)

May 2008 Commendations

Prize	Title of Paper	Division	Name
Excellence Award	High-reliability parallel operating inverter	Power Systems Division, 1st Design Dept.	Yoshiaki Okui
Excellence Award	Method for high-precision detection of motor insulation aging	Servo Systems Division, 2nd Design Dept.	Yuuji Ide

Technical Papers Published Outside the Company in General Technical Journals

April 2008 to March 2009

Title of Paper	Authors	Name of Journal	Issued	Publisher
Development of the Parallel Processing Uninterruptible Power Supply "SANUPS E33A"	Yoshiaki Okui	PED Power Electronics Digest	2009.1	Myway Techno Service., Co, Ltd.
Heat Generated at the Base of a "Fan" Air Flow and Static Pressure Determine Air Blowing Power in Axial and Centrifugal Fans	Yoshihiko Aizawa	Nikkei Win PC	2009.2	Nikkei Business Publications, Inc.
Heat Generated at the Base of a "Fan" Selecting a Fan: Calculating Optimal Air Flow	Yoshihiko Aizawa	Nikkei Win PC	2009.3	Nikkei Business Publications, Inc.

Technical Papers Published Outside the Company

April 2008 to March 2009

Title of Paper	Authors	Name of Journal	Issued	Publisher
Power Quality Maintenance of Independence Power Grid by Independent Control of PQ (Active/Reactive Power)	Yoshiaki Okui, and others	Joint Technical Meeting on Power Engineering and Power Systems Engineering PE-08-137 PE-08-146	2008.8	Joint Technical Meeting on Power Engineering and Power Systems Engineering
Electric power quality of the next generation power supply system using DGs	Yoshiaki Okui, and others	Joint Technical Meeting on Power Engineering and Power Systems Engineering PE-08-152 PE-08-161	2008.8	Joint Technical Meeting on Power Engineering and Power Systems Engineering
The operational report of the uninterruptible power supply system with DGs	Yoshiaki Okui, and others	The 2008 Power and Energy Society Annual Conference, IEE Japan General Meeting: 125	2008.9	The Institute of Electrical Engineers of Japan
Study on Interconnect Power System of PV System Using Storage Device	Yoshiaki Okui, and others	The 2008 Power and Energy Society Annual Conference, IEE Japan General Meeting: 131	2008.9	The Institute of Electrical Engineers of Japan
New power supply system with distributed generators(DGs)	Yoshiaki Okui, and others	POWERCON2008 & 2008 IEEE Power India Conference paper#/0435 area10/Presentation Serial #25	2008.10	IEEE
DC micro grid using Parallel Processing UPS method	Yoshiaki Okui, and others	Meeting on Power Engineering PE-08-163	2008.11	The Institute of Electrical Engineers of Japan
A study of the efficiencies of the micro-grid supply system using DGs	Yoshiaki Okui, Nariaki Kimura, and others	The 2009 Annual Meeting Record IEE Japan General Meeting: 6-309	2009.3	The Institute of Electrical Engineers of Japan
A Study on Independent PQ Control in Independence Power Grid	Nariaki Kimura, Yoshiaki Okui, and others	The 2009 Annual Meeting Record IEE Japan General Meeting: 6-259	2009.3	The Institute of Electrical Engineers of Japan
A study on the charge approach of the uninterruptible power supply system with DGs	Yoshiaki Okui, and others	The 2009 Annual Meeting Record IEE Japan General Meeting: 6-283	2009.3	The Institute of Electrical Engineers of Japan
A study of control over fluctuating system output power in photovoltaic system	Nariaki Kimura, Yoshiaki Okui, and others	The 2009 Annual Meeting Record IEE Japan General Meeting: 4-055	2009.3	The Institute of Electrical Engineers of Japan

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