

Registration Number	Name	Inventor(s)
U.S. - 10312763	STATOR, METHOD FOR MANUFACTURING STATOR, AND MOTOR	Toshihito Miyashita, Masashi Suzuki, Manabu Horiuchi, Masaki Musha
U.S. - 10344764	AXIAL BLOWER AND SERIES-TYPE AXIAL BLOWER	Toshiyuki Nakamura, Shuji Miyazawa
U.S. - 10367393	MOTOR ROTATOR, MOTOR DEVICE, AND METHOD FOR MANUFACTURING THE MOTOR ROTATOR	Koji Nakatake, Masaaki Ohashi
U.S. - 10393127	HOUSING OF FAN MOTOR	Toshiya Nishizawa, Haruka Sakai, Jiro Watanabe, Masashi Yokota
U.S. - 10465692	FAN MOTOR	Naruhiko Kudo, Munenori Takakuwa, Tatsuya Midorikawa

Internal Recognition: Invention Grand Prize (Excellence Award)

Awarded in May 2019

Prize	Title	Division	Name
Excellence Award	Drainage Structure of Splash Proof Blower	Cooling Systems Div., Design Dept.	Masaki Kodama, Toshiya Nishizawa, Kakuhiko Hata

Internal Recognition: Manufacturing Grand Prize (Excellence Award)

Awarded in May 2019

Prize	Title	Division	Name
Excellence Award	Injection Mold Technology which Realized Both Miniaturization and High Quality Product Appearance	Cooling Systems Div., Production Dept. Production Engineering Sect. 2	Yoichi Yamada Rikiya Niimura
Excellence Award	Automation of Plate Processing for Linear Servo Motors	Human Resources Dept. (On secondment from SANYO DENKI Techno Service Co., LTD.)	Takashi Miyasaka, Toru Kamimura
		SANYO DENKI Techno Service CO., LTD. Servo Systems Div., Production Engineering Dept., Process Engineering Sect. 1, Subsect. 1	Hideaki Kobayashi Yoshiaki Hirabayashi

Technical Papers Published Outside the Company in General Technical Journals

January to December 2019

Title of Paper	Authors	Name of Journal	Issued in	Publisher
Feature: Product and Technology Development of Member Companies and the Results of 2018	SANYO DENKI CO., LTD.	Denki (Electrical Appliances)	2019.2	The Japan Electrical Manufacturers' Association (JEMA)
Development of UPS Products Equipped with Lithium-Ion Batteries Creating Change and Offering New Value	Masahiko Nagai	Monthly JETI	2019.6	Nippon Syuppan Seisaku Center Inc.
Development of the SANUPS G53A Emergency Diesel Generator	Masayuki Shibata	Smart Grid	2019.10	TAIGA Publishing Co., Ltd.
Development of the SANUPS A22A Modular Uninterruptible Power Supply	Hiroya Tokutake, Hiroshi Hirata, Yoshiko Kondo, Yuzo Kubota, Hiroyuki Kaneko, Toshifumi Nishizawa, Yoshimi Sunohara, Tomoharu Tanaka, Yuta Abe, Mika Takehara	Monthly JETI	2019.11	Nippon Syuppan Seisaku Center Inc.
Development of the SANMOTION C Motion Controller SMC100	Hideaki Kodama, Tomonobu Tazaki, Shigeki Sato, Hiroto Endo, Manabu Nakamura, Naoto Miura, Masayuki Mizutani, Ryunosuke Murakami	Monthly JETI	2019.11	Nippon Syuppan Seisaku Center Inc.

Technical Papers Published Outside the Company

January to December 2019

Title of Paper	Authors	Name of Journal	Issued in	Publisher
Study of a microgrid using a private power generator during a utility grid failure	Takuya Ota, Hiroaki Miyoshi (Co-authors: Aichi Institute of Technology, Southeast University, NTT FACILITIES, INC.)	Conference paper collection	2019.5	The 3rd IEEE ICDCM (International Conference on DC Microgrids)
Component analysis of estimated voltage disturbance in temperature estimation method robust to parameter variation	Yuji Ide, Daigo Kuraishi, Akihiko Takahashi (Co-author: Nagaoka University of Technology)	The papers of Technical Meeting on Semiconductor Power Converter, IEEJ	2019.1	Joint Technical Meeting on Semiconductor Power Converter and Motor Drive, IEEJ
Temperature Estimation Method Considering Zero Speed Operation of SPMSM	Yuji Ide, Daigo Kuraishi, Akihiko Takahashi (Co-author: Nagaoka University of Technology)	2019 IEEJ Industrial Applications Category Contest Lecture paper collection	2019.8	IEEJ Industrial Applications Category