

Patent 5199707	Three-Phase 3-Wire to Single-Phase 3-Wire Switching Electric Power-Generating Facility	Hiroyuki Kiuchi, Naohiko Shiokawa
Patent 5193897	Uninterruptible Power Supply System Using Electric Double-Layer Capacitor	Minoru Yanagisawa
Patent 4988796	Method of Inspecting Motor Condition and Device for Inspecting Motor Characteristics	Akihiko Takahashi
Patent 5043915	Poewr Supply Ststem for Driving Motor	Yuuji Ide
Patent 5166389	Poewr Supply Ststem for Driving Motor and Regeneration Method Using the Same	Yuuji Ide
Patent 5113862	Motor Controlling Apparatus	Yuuji Ide
Patent 5211027	Counter-Rotating Axial Flow Fan	Honami Osawa, Yoshihiko Aizawa
Patent 5194083	Method and System for Determining Deterioration of Permanent Magnets of Electric Apparatus	Akihiko Takahashi, Kouji Misawa, Manabu Horiuchi

Internal Recognition: Invention Grand Prize (Excellence Award)

May 2012 Commendations

Prize	Title of Paper	Division	Name
Excellence Award	Power Supply Systems	Power Systems Division, 1st Design Dept.	Yoshiaki Okui
Excellence Award	Spindle Motor Control Device	Servo Systems Division, 2nd Design Dept. Servo Systems Division, 2nd Design Dept.	Yuuji Ide Satoshi Yamazaki
Excellence Award	Development of the Power Conditioner with Peak-cut Function	Power Systems Division, 1st Design Dept. Power Systems Division, 1st Design Dept.	Naohiko Shiokawa Yuuji Wada

Internal Recognition: Manufacturing Grand Prize (Excellence Award)

May 2012 Commendations

Prize	Title of Paper	Division	Name
Excellence Award	Delivering Greater Productivity through Reforms in the Winding Completion Process	Servo Systems Division, 1st Design Dept. Servo Systems Division, 1st Production Dept.	Tooru Takeda Masato Kobayashi
Excellence Award	Improvements to Pre-heating for Oil-proof Fans	SANYO DENKI PHILIPPINES, INC. Production Dept. Final Assembly Line Improvement Group	—
Excellence Award	Start of Mass Production and Efforts to Reduce Work-hours for "Unit-type Power Supply H-Cabinet"	Power Systems Division, Production Dept.	Ryou Kanai

Technical Papers Published Outside the Company in General Technical Journals

April 2012 to March 2013

Title of Paper	Authors	Name of Journal	Issued	Publisher
Feature: 2012 Product and Technology Development from Member Companies and the Results Grid Management Device "SANUPS K23A (M Type)"	Sanyo Denki Co., Ltd.	Denki	2013.2	Japan Electrical Manufacturer's Association