

INTELLECTUAL PROPERTY

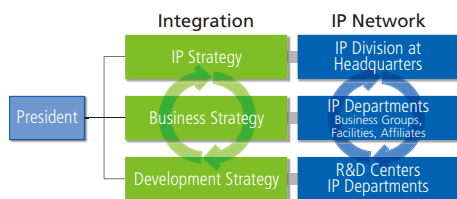
Essential to the Mitsubishi Electric Group's pursuit of global business development is the rigorous promotion and protection of intellectual property (IP) rights.

Recognizing IP as a vital resource that underpins corporate strength, the Mitsubishi Electric Group continues to integrate its business, R&D and IP activities. With approximately 37,000 patents and about 10,000 new applications filed each year in Japan and overseas, our extensive portfolio forms the wellspring of our global competitive advantage.

Structure of the Intellectual Property Division

The Group's IP-related operations are the direct responsibility of the President and overseen by our IP Division at headquarters under an appointed IP executive officer. Day-to-day issues are handled by IP departments at relevant facilities and R&D centers. Focusing on integration as the means to improve the structure and effectiveness of our IP network, we coordinate activities at each level. The IP Division at headquarters formulates strategies for the entire Group, promotes critical IP-related projects, and coordinates interaction with the patent office. At the facility and R&D center level, IP departments pursue specific objectives in line with the Group's overall IP strategies.

Integrating Business, R&D and IP Activities



IP Strategy

In all our IP-related activities, we strive to enhance IP capabilities in response to business conditions based on effective utilization of the IP creation cycle. Specifically, the IP Division and its departments identify critical IP-related themes in connection with mainstay busi-

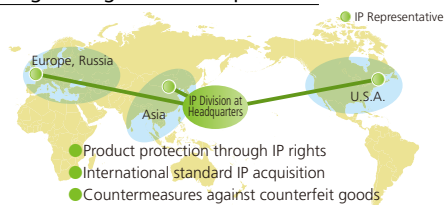
nesses and important R&D projects. In strategically promoting IP activities, we further reinforce the Group's global competitiveness.

In our IP strategy of recent years, maintaining a close correlation with international standards has been particularly important. Therefore, we are working to ensure the international standardization of our technologies as well as to obtain certified patents for standards. In patents related to MPEG¹ and DVDs, we have taken the industry lead in the management of patent pool organizations, such as MPEG-LA and DVD6C. These IP activities are contributing to the improvement and expansion of our business performance.

Moreover, in response to further business globalization, Group IP representatives in the United States, Europe and China actively work to strengthen IP capabilities and to accelerate our global IP activities.

In the critical area of protecting IP rights, we work closely with relevant industry associations and government agencies to prevent IP infringements and eradicate counterfeiting. In-house, we continually update and enforce internal controls for the appropriate management of confidential IP material.

Further Strengthening Global IP Capabilities



Received Two Prizes in the 2009 National Commendation of Invention (established by the Japan Institute of Invention and Innovation)

The 21st Century Encouragement of Invention Prize for "Gradationally Controlled Voltage Inverter Technology"

With this gradationally controlled voltage inverter technology for converting direct current into alternating current, Mitsubishi Electric has realized highly efficient yet compact inverters. This product is expected to be adopted for use in various electronic goods.

The Prize of the Chairman of the Japan Chamber of Commerce and Industry for "Electrical Discharge Machine Control Technology"

This award-winning technology controls the power source by optimally combining both the number of switching elements and operating time to regulate electric discharge. This achievement makes possible the high-precision molding processing and precision processing of environmental technology products, aerospace parts and medical appliances, for which maintaining constant quality standards is difficult.

Mitsubishi Electric's Core Technologies and Patents

SEGMENT	FIELD	CORE TECHNOLOGY PRODUCTS/TECHNOLOGIES/PATENTS
Energy and Electric Systems	Power Systems	Power generation systems, substation systems, power distribution systems, insulation technology, large-current control systems
	Transportation Systems	Propulsion control systems, transportation planning and control systems, train information systems, train vision systems
	Elevators/Escalators	Machine-room-less elevators, high-speed elevators, high-efficiency group control systems, escalators, elevator adjustable speed control technology, elevator electronic safety technology
	Supervisory Control Systems	Total security solution (DIGUARD), nuclear power generation plant monitoring and control systems, multiple large-screen systems, network visual monitoring systems
Industrial Automation Systems	Industrial Automation Products and Systems	Programmable controllers, human machine interfaces, AC servo systems, inverters, low-voltage circuit breakers, computerized numerical controllers, electrical discharge machines, laser processing machines, micro spark coating technology
	Measurement and Control Systems	Energy diagnosis technology, power meters, EcoMonitor
	Automotive Electric & Electronic Products and Car Multimedia Systems	Electrical power steering, high-efficiency alternators, high-power starters, onboard ETC equipment, car navigation technology
Information and Communication Systems	Wireless Base Stations	Digital modulation and demodulation technology, wireless access control technology, error detection and correction technology, amplifier circuit technology
	Closed Circuit Television Systems	Video storage technology, video encoding and decoding technology, sensor information processing technology, speech coding technology
	Space, Satellite Communication Systems	Satellites, posture control technology
	Antennas and Radar Devices	Radar system technology, antenna technology, microwave and millimeter wave technology, tracking and signal processing technology
	Information Communications Network Systems	Information security technology, quantum cryptography systems, data management technology, information system construction technology, optical communication technology, optical access technology, IP network technology, NGN ² home gateways
Electronic Devices	Power Devices	High-efficiency power devices/modules (IGBT ³ , IPM ⁴), transfer molds/power modules, SiC power devices
	High Frequency and Optical Devices	High-frequency MEMS ⁵ devices, uncooled infrared image sensors, GaN high-power devices/amplifiers
	LCD Modules	Advanced image processing technology
Home Appliances	Air Conditioning Systems	Heat pump technology, air conditioners, ventilating fans, chlorofluorocarbon-free technology
	Photovoltaic Power Generation Systems	High-efficiency photovoltaic battery cells, PV inverters
	Projection TVs	Laser TVs, rear projection TVs
	DVD Recorders and Players	Blu-ray Disc recorder, digital terrestrial broadcasting receiver technology for automobiles, highlight replay technology, MPEG encoding technology

1 MPEG: Moving Picture Experts Group
2 NGN: Next-Generation Network
3 IGBT: Insulated Gate Bipolar Transistor

4 IPM: Intelligent Power Module
5 MEMS: Micro Electro Mechanical Systems