

Major Patents

■ Patents registered in FY 2022

Patent Number	Title	Inventor(s)
Germany - 02733826	SPLIT-CORE TYPE MOTOR AND METHOD OF MANUFACTURING ARMATURE OF SPLIT-CORE TYPE MOTOR	Toru Takeda, Shintaro Koichi, Kenta Matsuhashi
Europe - 02733826		
Germany - 02848815	HOUSING OF FAN MOTOR	Toshiya Nishizawa, Haruka Sakai, Jiro Watanabe, Masashi Yokota
Denmark - 2848815		
Europe - 02848815		
Finland - 02848815		
France - 02848815		
U.K. - 02848815		
Japan - 07049754	MOTOR CONTROL APPARATUS	Yuji Ide, Michio Kitahara, Toshio Hiraide
Philippines - 1-2016-000156	BIDIRECTIONAL AXIAL FAN DEVICE	Satoshi Fujimaki, Toshiya Nishizawa, Takashi Kawashima
Philippines - 1-2016-000322	MEASUREMENT DEVICE	Masahiro Koike, Tomoaki Ikeda, Takahisa Toda, Yo Muramatsu, Katsumichi Ishihara, Hikaru Urushimoto
China - ZL201611048797.8	MOTOR CONTROL APPARATUS	Yuji Ide, Toshio Hiraide
Korea - 102381230	MOTOR	Manabu Horiuchi, Mai Shimizu, Jun Kitajima
Taiwan - I764894		
China - ZL201710560832.2	MOTOR CONTROL DEVICE	Yuji Ide, Toshio Hiraide, Keigo Kikuchi
Taiwan - I762510	BLAST FAN	Yoshihisa Yamazaki, Satoshi Fujimaki, Takashi Kawashima, Soma Araki
Philippines - 1-2018-000005	MOTOR CONTROL APPARATUS	Yuji Ide, Toshio Hiraide, Michio Kitahara
Taiwan - I783961		
Philippines - 1-2018-000167	COOLING FAN AUTOMATIC CONTROL SYSTEM AND COOLING FAN AUTOMATIC CONTROL DEVICE	Naoki Murakami, Masashi Murakami
Taiwan - I770194		
Japan - 07092471	ROTATING SHAFT LINEAR MOTOR	Yuqi Tang
Japan - 07108394	MOTOR HOLDING BRAKE SERVICE LIFE DETERMINATION SYSTEM, MOTOR HOLDING BRAKE SERVICE LIFE DETERMINATION DEVICE, AND MOTOR HOLDING BRAKE SERVICE LIFE DETERMINATION METHOD	Hideki Netsu, Yoshiyuki Murata
China - ZL201811345092.1	STATOR OF ROTATING ARMATURE AND ASSEMBLY METHOD THEREOF	Mitsuaki Shioiri, Koji Nakatake, Yasushi Yoda, Zhang Hong, Kazuhiro Yoda, Shogo Yoda
Japan - 07039264		
Japan - 07080644	POWER STORAGE SYSTEM	Hiroshi Yamada
Germany - 03540238	FAN MOTOR APPARATUS WITH PROTECTION COVER	Yusuke Okuda, Haruhisa Maruyama, Yoshihisa Yamazaki
Europe - 03540238		
Finland - 03540238		
France - 03540238		
U.K. - 03540238		
Italy - 03540238		
Japan - 07105584		
Japan - 07062512		
U.S. - 11239711	ARMATURE MOLDED STRUCTURE	Manabu Horiuchi, Hiroki Sagara, Jun Kitajima, Mai Shimizu, Takashi Matsushita