

Title (en)
ELECTRIC PUMP UNIT

Title (de)
ELEKTROPUMPENEINHEIT

Title (fr)
UNITÉ DE POMPE ÉLECTRIQUE

Publication
EP 2476904 A1 20120718 (EN)

Application
EP 10815443 A 20100910

Priority
• JP 2009209992 A 20090911
• JP 2010065611 W 20100910

Abstract (en)
An electric pump unit that may be compactified and that may be reduced in weight and cost is provided. An electric pump unit is configured such that a pump chamber (9) having an oil suction port (18) and an oil discharge port (19) is formed on an inner side of a motor stator (5) that is fixedly provided on an inner periphery of a synthetic resin unit housing (1) and only part of an inner peripheral side of which is exposed to an inside of the unit housing (1), a pump outer rotor (10) is arranged on an inner side of the motor stator (5) in the pump chamber (9) so as to be able to rotate using an inner periphery of the motor stator (5) as a guide, a pump inner rotor (11) that is supported for rotation by the unit housing (1) is arranged on an inner side of the pump outer rotor (10), and a motor rotor (14) is formed such that a permanent magnet (13) is held by a synthetic resin permanent magnet holding portion (15) that is provided by integral molding on an outer periphery of the pump outer rotor (10).

IPC 8 full level
F04C 15/00 (2006.01); **F04C 2/08** (2006.01); **F04C 2/10** (2006.01); **F04C 11/00** (2006.01)

CPC (source: EP US)
F04C 2/084 (2013.01 - EP US); **F04C 2/102** (2013.01 - EP US); **F04C 15/008** (2013.01 - EP US); **F04C 11/008** (2013.01 - EP US);
F04C 2240/30 (2013.01 - EP US); **F04C 2240/40** (2013.01 - EP US)

Cited by
CN109139462A; IT201600130203A1; WO2018114607A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
EP 2476904 A1 20120718; **EP 2476904 A4 20140430**; CN 102483059 A 20120530; JP 2011058441 A 20110324; US 2012164009 A1 20120628;
WO 2011030849 A1 20110317

DOCDB simple family (application)
EP 10815443 A 20100910; CN 201080040013 A 20100910; JP 2009209992 A 20090911; JP 2010065611 W 20100910;
US 201013390420 A 20100910