

Title (en)
ELECTRIC WATER PUMP

Title (de)
ELEKTRISCHE WASSERPUMPE

Title (fr)
POMPE À EAU ÉLECTRIQUE

Publication
EP 3091233 A1 20161109 (EN)

Application
EP 15194087 A 20151111

Priority
KR 20150046992 A 20150402

Abstract (en)
An electric water pump (1) includes a pump cover (10) having an inlet (12) through which coolant flows; a stator chamber (45) having a stator generating a magnetic field according to a control signal; a rotor chamber (35) having a rotor (37) rotating according to the magnetic field generated by the stator; a separation wall (90) configured to separate the stator chamber from the rotor chamber; a shaft (100) having a central axis, fixed to the rotor so as to rotate together with the rotor about the central axis thereof; and an impeller (17) fixed to a front portion of the shaft so as to rotate together with the shaft, the impeller pressurizing a coolant having flowed in through the inlet, wherein at least one wing portion (110) is formed on a part of the shaft to increase a flow of the coolant.

IPC 8 full level
F04D 13/06 (2006.01); **F01P 5/10** (2006.01); **F04D 29/58** (2006.01)

CPC (source: CN EP US)
F01P 5/10 (2013.01 - US); **F04D 13/0606** (2013.01 - EP US); **F04D 29/043** (2013.01 - CN); **F04D 29/2272** (2013.01 - CN); **F04D 29/5806** (2013.01 - EP US); **F04D 29/586** (2013.01 - CN); **F01P 2005/046** (2013.01 - EP)

Citation (search report)
• [X] US 2004234395 A1 20041125 - HATANO MAKOTO [JP]
• [I] DE 102013007849 A1 20141113 - KSB AG [DE]

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 RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
US 2016290364 A1 20161006; CN 106050725 A 20161026; EP 3091233 A1 20161109; KR 20160118612 A 20161012

DOCDB simple family (application)
US 201514935020 A 20151106; CN 201510845960 A 20151126; EP 15194087 A 20151111; KR 20150046992 A 20150402