

Title (en)
TWO-STAGE CENTRIFUGAL PUMP

Title (de)
ZWEISTUFIGE KREISELPUMPE

Title (fr)
POMPE CENTRIFUGE À DEUX ÉTAGES

Publication
EP 2473740 A1 20120711 (DE)

Application
EP 10734096 A 20100713

Priority

- DE 102009029069 A 20090901
- EP 2010060007 W 20100713

Abstract (en)
[origin: WO2011026678A1] The invention relates to a centrifugal pump (100), in particular for a coolant in a motor vehicle, comprising a first centrifugal pump stage (102) having a first pump housing (108), and a first impeller (110) rotatably mounted therein, and to a drive device (106) for coaxially driving the first impeller. A second centrifugal pump stage (104) has a second pump housing (114) and a second impeller (116) rotatably mounted therein and an intermediate housing (120) is located between the first and the second pump housing (108, 114) for diverting a fluid flow dispersed by the first impeller to an inlet region of the second impeller.

IPC 8 full level
F04D 1/06 (2006.01); **F04D 29/22** (2006.01); **F04D 29/42** (2006.01)

CPC (source: EP KR US)
F04D 1/06 (2013.01 - EP KR US); **F04D 29/22** (2013.01 - KR); **F04D 29/2222** (2013.01 - EP US); **F04D 29/42** (2013.01 - KR);
F04D 29/426 (2013.01 - EP US); **Y10T 29/49002** (2015.01 - EP US)

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)
DE 102009029069 A1 20110303; CN 102483067 A 20120530; EP 2473740 A1 20120711; IN 1413DEN2012 A 20150605;
JP 2013503997 A 20130204; JP 5599463 B2 20141001; KR 20120061854 A 20120613; US 2012219411 A1 20120830;
WO 2011026678 A1 20110310

DOCDB simple family (application)
DE 102009029069 A 20090901; CN 201080038608 A 20100713; EP 10734096 A 20100713; EP 2010060007 W 20100713;
IN 1413DEN2012 A 20120215; JP 2012527256 A 20100713; KR 20127005416 A 20100713; US 201013393564 A 20100713