

Title (en)
Centrifugal pump assembly

Title (de)
Kreispumpenaggregat

Title (fr)
Agrégat de pompe centrifuge

Publication
EP 2172654 B1 20110601 (DE)

Application
EP 08017263 A 20081001

Priority
EP 08017263 A 20081001

Abstract (en)
[origin: EP2172654A1] The aggregate has a suction inlet (4) provided on an inlet side of an impeller, and a pressure outlet (12) provided at an outlet side of the impeller. A vortex flow sensor and a guide element are arranged in a pipeline segment formed by the suction inlet and/or the pressure outlet. The guide element controls flow through the pipeline segment. The guide element is formed as a rib (22) inwardly protruding from an inner wall (26) of the pipeline segment. The rib extends in a flow direction (S) of a fluid along the inner wall.

IPC 8 full level
F04D 29/44 (2006.01)

CPC (source: EP US)
F04D 15/0088 (2013.01 - EP US); **F04D 29/4273** (2013.01 - EP US); **F04D 29/445** (2013.01 - US); **F04D 29/448** (2013.01 - EP US)

Cited by
GB2551763A; GB2551763B

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

DOCDB simple family (publication)
EP 2172654 A1 20100407; EP 2172654 B1 20110601; EP 2172654 B2 20131120; AT E511606 T1 20110615; CN 102232147 A 20111102; CN 102232147 B 20150513; PL 2172654 T3 20111031; PL 2172654 T5 20140430; US 2012128478 A1 20120524; US 8858170 B2 20141014; WO 2010037444 A1 20100408

DOCDB simple family (application)
EP 08017263 A 20081001; AT 08017263 T 20081001; CN 200980148331 A 20090806; EP 2009005681 W 20090806; PL 08017263 T 20081001; US 200913122236 A 20090806