

Title (en)
Pump

Title (de)
Pumpe

Title (fr)
Pompe

Publication
EP 2495444 A3 20140115 (DE)

Application
EP 12157676 A 20120301

Priority
DE 102011005138 A 20110304

Abstract (en)
[origin: EP2495444A2] The pump (11) has an impeller (19) for conveying fluid or water, which rotates in a pump chamber (13) with a pump base. One or multiple stationary flow guide blades (25a,25b) are arranged radially outside the impeller, which extend helically with an incline away from the pump base, where the incline extends in the rotational direction of the impeller. One of the flow guide blade extends up to the lower side of the impeller.

IPC 8 full level
F04D 9/00 (2006.01); **F04D 29/42** (2006.01); **F04D 29/44** (2006.01); **F04D 29/58** (2006.01)

CPC (source: EP US)
F04D 9/003 (2013.01 - EP US); **F04D 29/426** (2013.01 - EP US); **F04D 29/448** (2013.01 - EP US); **F04D 29/588** (2013.01 - EP US)

Citation (search report)
• [A] WO 2008125488 A2 20081023 - BSH BOSCH SIEMENS HAUSGERAETE [DE], et al
• [A] US 2003235497 A1 20031225 - MENG SEN YIH [US]
• [A] WO 03005875 A1 20030123 - MIELE & CIE [DE], et al
• [A] FR 1533760 A 19680719 - GRUNDFOSS BJERRINGBRO PUMPEFAB

Cited by
WO2017194301A1; WO2017194300A1; DE102015219489A1; DE102016208017A1; DE102016208020A1; CN109154307A; CN109154308A; EP3293304A1; EP4140386A4; WO2016007317A1; US11268515B2; US11879479B2; US10793992B2; DE102015219489B4

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)
EP 2495444 A2 20120905; EP 2495444 A3 20140115; EP 2495444 B1 20150701; DE 102011005138 A1 20120906;
US 2012224961 A1 20120906; US 8899918 B2 20141202

DOCDB simple family (application)
EP 12157676 A 20120301; DE 102011005138 A 20110304; US 201213410621 A 20120302