

Title (en)
Pump and method for producing an impeller for a pump

Title (de)
Pumpe und Verfahren zum Herstellen eines Impellers für eine Pumpe

Title (fr)
Pompe et procédé de fabrication d'une hélice pour une pompe

Publication
EP 2674092 B1 20160309 (DE)

Application
EP 13170737 A 20130606

Priority
DE 102012209832 A 20120612

Abstract (en)
[origin: US2013330170A1] In a centrifugal pump for pumping a fluid with central axial suctioning and radial discharging of the fluid to be pumped out of the impeller, the impeller includes an upper cover plate and a lower cover plate and multiple interposed blades therebetween. In the radial inner region, the blades extend essentially parallel to the rotation axis of the impeller in the axial direction of the pump and thus are upright, wherein said blades in the course radially outwards thereof are increasingly inclined or extend oblique.

IPC 8 full level
F04D 1/00 (2006.01); **F04D 29/02** (2006.01); **F04D 29/22** (2006.01); **F04D 29/24** (2006.01)

CPC (source: EP KR US)
A47L 15/42 (2013.01 - KR); **A47L 15/4225** (2013.01 - EP US); **D06F 17/10** (2013.01 - KR); **D06F 39/085** (2013.01 - EP US);
F04D 1/00 (2013.01 - US); **F04D 29/026** (2013.01 - EP US); **F04D 29/22** (2013.01 - US); **F04D 29/2227** (2013.01 - EP US);
F04D 29/24 (2013.01 - KR); **F04D 29/242** (2013.01 - EP US); **F05D 2230/20** (2013.01 - EP US); **F05D 2230/53** (2013.01 - EP US);
F05D 2300/43 (2013.01 - 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 RS SE SI SK SM TR

DOCDB simple family (publication)
DE 102012209832 B3 20130912; CN 103486077 A 20140101; CN 103486077 B 20180608; EP 2674092 A1 20131218;
EP 2674092 B1 20160309; ES 2566189 T3 20160411; KR 102060203 B1 20191227; KR 20130139186 A 20131220; PL 2674092 T3 20160930;
US 2013330170 A1 20131212

DOCDB simple family (application)
DE 102012209832 A 20120612; CN 201310230688 A 20130609; EP 13170737 A 20130606; ES 13170737 T 20130606;
KR 20130066540 A 20130611; PL 13170737 T 20130606; US 201313910185 A 20130605