

Title (en)
HELICAL IMPELLER

Title (de)
SPIRALFÖRMIGES LAUFRAD

Title (fr)
HÉLICE HÉLICOÏDALE

Publication
EP 3642490 A1 20200429 (EN)

Application
EP 18821001 A 20180622

Priority
• IN 201741022007 A 20170622
• IN 2018050411 W 20180622

Abstract (en)
[origin: WO2018235105A1] An impeller comprising a vane disposed on a hub in a helical configuration is provided. The hub has a top end and a base. A first end of the vane is disposed above the top end and the second end of the vane disposed on the base. A surface of the vane has a convex profile. The vane comprises an inner edge. A first portion of the inner edge between the top end and the base is attached to the hub and a second portion of the inner edge extends above the top end. An outer edge is provided opposite to the inner edge. A leading edge connects the inner edge and the outer edge at the first end. The inner edge curves inwards at the leading edge. A trailing edge connects the inner edge and the outer edge at the second end.

IPC 8 full level
F04D 29/24 (2006.01)

CPC (source: EP)
F04D 7/04 (2013.01); **F04D 29/225** (2013.01); **F04D 29/24** (2013.01); **F04D 29/245** (2013.01); **F05D 2240/303** (2013.01); **F05D 2250/712** (2013.01)

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)
WO 2018235105 A1 20181227; CN 109964043 A 20190702; EP 3642490 A1 20200429; EP 3642490 A4 20210317; ZA 201902263 B 20200826

DOCDB simple family (application)
IN 2018050411 W 20180622; CN 201880004177 A 20180622; EP 18821001 A 20180622; ZA 201902263 A 20190410