

Title (en)
PUMP UNIT

Title (de)
PUMPENAGGREGAT

Title (fr)
GROUPE MOTOPOMPE

Publication
EP 3376038 B1 20210728 (DE)

Application
EP 17160837 A 20170314

Priority
EP 17160837 A 20170314

Abstract (en)
[origin: WO2018166971A1] The invention relates to a pump assembly having at least one rotationally driven impeller (14) and at least one valve element (18), which is rotatable about an axis of rotation (X) between at least two switching positions, wherein the valve element (18) has a first end face (22) extending transversely with respect to its axis of rotation, said first front face having in the central region an intake opening (24) which engages with an intake nozzle (26) of the impeller (14), and the first end face (22) has a pressure surface which surrounds the intake opening (24) and borders on a pressure chamber (28) surrounding the impeller (14).

IPC 8 full level
F04D 1/00 (2006.01); **F04D 13/06** (2006.01); **F04D 15/00** (2006.01); **F04D 29/16** (2006.01); **F04D 29/42** (2006.01); **F04D 29/48** (2006.01); **F04D 29/70** (2006.01)

CPC (source: EP US)
F04D 1/00 (2013.01 - EP); **F04D 13/06** (2013.01 - EP); **F04D 13/0686** (2013.01 - EP); **F04D 15/0005** (2013.01 - EP US); **F04D 15/0016** (2013.01 - EP); **F04D 15/0022** (2013.01 - EP US); **F04D 15/0066** (2013.01 - EP); **F04D 29/167** (2013.01 - EP US); **F04D 29/4293** (2013.01 - EP US); **F04D 29/486** (2013.01 - EP US); **F04D 29/708** (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)
EP 3376038 A1 20180919; EP 3376038 B1 20210728; CN 110418894 A 20191105; CN 110418894 B 20211105; US 11512712 B2 20221129; US 2020072238 A1 20200305; WO 2018166971 A1 20180920

DOCDB simple family (application)
EP 17160837 A 20170314; CN 201880018580 A 20180312; EP 2018056082 W 20180312; US 201816493177 A 20180312