

Title (en)  
CENTRIFUGAL PUMP

Title (de)  
KREISELPUMPE

Title (fr)  
POMPE CENTRIFUGE

Publication  
**EP 3510289 B1 20240320 (DE)**

Application  
**EP 17765122 A 20170901**

Priority  
• DE 102016217110 A 20160908  
• EP 2017071990 W 20170901

Abstract (en)  
[origin: WO2018046405A1] The invention relates to a centrifugal pump, comprising as components at least one impeller (1), a shaft (5) and a housing (2). The impeller (1) is connected to the shaft (5) in a rotationally fixed manner and is at least partially surrounded by a housing (2). The impeller (1) is produced together with the shaft (5) as an integral component from a construction material by successive solidification of layers by means of radiation.

IPC 8 full level  
**F04D 29/02** (2006.01); **F04D 29/22** (2006.01); **F04D 29/40** (2006.01)

CPC (source: EP)  
**F04D 29/026** (2013.01); **F04D 29/2222** (2013.01); **F04D 29/2227** (2013.01); **F04D 29/406** (2013.01)

Citation (examination)  
WO 2017127629 A1 20170727 - FLORIDA TURBINE TECH INC [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 102016217110 A1 20180308**; BR 112019004506 A2 20190528; EP 3510289 A1 20190717; EP 3510289 B1 20240320; EP 3510289 C0 20240320; WO 2018046405 A1 20180315

DOCDB simple family (application)  
**DE 102016217110 A 20160908**; BR 112019004506 A 20170901; EP 17765122 A 20170901; EP 2017071990 W 20170901