

Title (en)
CENTRIFUGAL PUMP WITH SLIDING ROTOR

Title (de)
KREISELPUMPE MIT VERSCHIEBBAREM ROTOR

Title (fr)
POMPE CENTRIFUGE À ROTOR COULISSANT

Publication
EP 3295034 A1 20180321 (DE)

Application
EP 16733866 A 20160506

Priority
• AT 503982015 A 20150513
• AT 2016050129 W 20160506

Abstract (en)
[origin: WO2016179619A1] The invention relates to a centrifugal pump (1), in particular a water pump, which is designed as a radial pump or a mixed flow pump, comprising an impeller (3) which is arranged in a housing (2) in a rotatable manner about an axis (8), is connected to a driveshaft (7), and has an impeller main part (4) that has impeller blades (6) and an impeller covering body (5). The impeller main part (4) and the impeller covering body (5) can be moved axially relative to each other via an adjusting device (22). In order to achieve an active and reliable regulation of the centrifugal pump (1) over the entire rotational speed and temperature range with very low drive power, the impeller main part (4) is arranged on the driveshaft (7) or the impeller covering body (5) in an axially movable manner, and the adjusting device (22) is operatively connected to the impeller main part (4).

IPC 8 full level
F04D 15/00 (2006.01); **F04D 29/042** (2006.01)

CPC (source: AT EP)
F04D 15/00 (2013.01 - AT); **F04D 15/0038** (2013.01 - AT EP); **F04D 29/042** (2013.01 - EP)

Citation (search report)
See references of WO 2016179619A1

Cited by
CN118482039A

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)
WO 2016179619 A1 20161117; AT 517163 A1 20161115; AT 517163 B1 20190815; EP 3295034 A1 20180321; EP 3295034 B1 20210120

DOCDB simple family (application)
AT 2016050129 W 20160506; AT 503982015 A 20150513; EP 16733866 A 20160506