

Title (en)
PUMP WITH HEATING DEVICE

Title (de)
PUMPE MIT EINER HEIZEINRICHTUNG

Title (fr)
POMPE AVEC DISPOSITIF DE CHAUFFAGE

Publication
EP 3011187 A1 20160427 (DE)

Application
EP 14727560 A 20140603

Priority
• DE 102013211556 A 20130619
• EP 2014061486 W 20140603

Abstract (en)
[origin: WO2014202382A1] A heating device for an impeller pump having a pump housing and a pump chamber arranged therein, said heating device defining a substantial portion or a boundary of the pump chamber in the radial direction, has a tubular round support. A projecting portion of said support projects at least at one end over a plane perpendicular to the longitudinal axis and a recessed portion thereof extends along said plane or below. Advantageously, the heating device is cut off at an angle at this end.

IPC 8 full level
F04D 29/42 (2006.01); **A47L 15/42** (2006.01); **D06F 39/04** (2006.01); **F04D 29/58** (2006.01)

CPC (source: EP US)
A47L 15/4225 (2013.01 - EP); **A47L 15/4285** (2013.01 - EP); **D06F 39/04** (2013.01 - EP US); **D06F 39/085** (2013.01 - EP US);
F04D 29/426 (2013.01 - EP US); **F04D 29/588** (2013.01 - EP)

Citation (search report)
See references of WO 2014202382A1

Cited by
EP3573425A1

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)
DE 102013211556 A1 20141224; CN 105378292 A 20160302; EP 3011187 A1 20160427; EP 3011187 B1 20180829; ES 2697398 T3 20190123; JP 2016522354 A 20160728; JP 6395819 B2 20180926; PL 3011187 T3 20190228; TR 201815954 T4 20181121; WO 2014202382 A1 20141224

DOCDB simple family (application)
DE 102013211556 A 20130619; CN 201480035033 A 20140603; EP 14727560 A 20140603; EP 2014061486 W 20140603; ES 14727560 T 20140603; JP 2016520357 A 20140603; PL 14727560 T 20140603; TR 201815954 T 20140603