

Title (en)
PROGRESSIVE CAVITY PUMP WITH OVERPRESSURE PROTECTION

Title (de)
EXZENTERSCHNECKENPUMPE MIT ÜBERDRUCKSCHUTZ

Title (fr)
POMPE À CAVITÉ PROGRESSIVE AVEC PROTECTION CONTRE UNE SURPRESSION

Publication
EP 2964957 A1 20160113 (DE)

Application
EP 14715204 A 20140206

Priority
• DE 102013003833 A 20130307
• EP 2014000320 W 20140206

Abstract (en)
[origin: WO2014135239A1] Eccentric screw pump having an outer part (2) and an inner part (3) arranged therein, of which one part (2, 3) is driven rotatably and one part (2, 3) can perform an eccentric movement with respect to the other part (3, 2). The thread turns (5a, 5b) of the outer part (2) are wound along the axial length (L) thereof by less than one whole helix, with the result that, during operation, conveying chambers are produced which are open on both sides and by way of which sudden decompressions take place.

IPC 8 full level
F04C 2/107 (2006.01); **F04C 14/28** (2006.01)

CPC (source: EP US)
F01C 1/10 (2013.01 - US); **F04C 2/1075** (2013.01 - EP US); **F04C 2/1076** (2013.01 - US); **F04C 14/28** (2013.01 - EP US); **F04C 2250/30** (2013.01 - EP US)

Citation (search report)
See references of WO 2014135239A1

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 102013003833 A1 20140911; CN 105121853 A 20151202; CN 105121853 B 20161130; EP 2964957 A1 20160113; EP 2964957 B1 20171122; PL 2964957 T3 20180430; US 2016003244 A1 20160107; US 9920758 B2 20180320; WO 2014135239 A1 20140912

DOCDB simple family (application)
DE 102013003833 A 20130307; CN 201480022381 A 20140206; EP 14715204 A 20140206; EP 2014000320 W 20140206; PL 14715204 T 20140206; US 201414769351 A 20140206