

Title (en)
ROTOR FOR AN ECCENTRIC SCREW PUMP AND METHOD FOR THE MANUFACTURE THEREOF

Title (de)
ROTOR FÜR EINE EXZENTERSCHNECKENPUMPE UND DESSEN HERSTELLUNGSVERFAHREN

Title (fr)
ROTOR POUR UNE POMPE À CAVITÉ PROGRESSIVE ET SON PROCÉDÉ DE FABRICATION

Publication
EP 3823782 A2 20210526 (DE)

Application
EP 19749244 A 20190718

Priority
• DE 202018104142 U 20180718
• EP 2019069446 W 20190718

Abstract (en)
[origin: CA3104788A1] The invention comprises a method of manufacturing a metallic rotor of a eccentric screw pump, comprising the steps of: clamping a workpiece extending along a central longitudinal axis in a workpiece clamping device, removing material from the workpiece by cutting with a cutting tool. The invention further comprises not producing the surface of the rotor in a three-axis whirling process, using the cutting tool to produce the outer surface geometry of the rotor, advancing the cutting tool along an axis of advance that is parallel to the longitudinal axis of the rotor, and rotating the cutting tool about an axis of tool rotation that is parallel to the longitudinal axis of the rotor.

IPC 8 full level
B23C 5/28 (2006.01); **B23C 3/08** (2006.01); **B33Y 80/00** (2015.01); **F04C 2/107** (2006.01)

CPC (source: EP KR US)
B23C 3/08 (2013.01 - EP KR US); **B33Y 80/00** (2014.12 - EP); **F01C 21/08** (2013.01 - EP KR); **F04C 2/107** (2013.01 - US); **F04C 2/1071** (2013.01 - EP KR); **B23C 2220/00** (2013.01 - US); **B23C 2220/08** (2013.01 - EP KR US); **B23C 2220/48** (2013.01 - EP KR US); **B33Y 80/00** (2014.12 - KR); **F04C 2230/103** (2013.01 - EP KR US); **F04C 2230/22** (2013.01 - EP KR US); **F04C 2240/10** (2013.01 - US); **F04C 2240/20** (2013.01 - EP KR US); **F04C 2250/201** (2013.01 - EP KR); **Y02P 10/25** (2015.11 - EP)

Cited by
WO2024038211A2

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 202018104142 U1 20191022; AU 2019304057 A1 20210204; AU 2019304057 B2 20220811; BR 112021000037 A2 20210330; CA 3104788 A1 20200123; CA 3104788 C 20230404; CN 112423924 A 20210226; CN 112423924 B 20231031; EP 3823782 A2 20210526; JP 2021529678 A 20211104; JP 7282156 B2 20230526; KR 102472002 B1 20221129; KR 20210031747 A 20210322; MX 2021000267 A 20210325; US 11841016 B2 20231212; US 2021301817 A1 20210930; US 2024044330 A1 20240208; WO 2020016386 A2 20200123; WO 2020016386 A3 20200326

DOCDB simple family (application)
DE 202018104142 U 20180718; AU 2019304057 A 20190718; BR 112021000037 A 20190718; CA 3104788 A 20190718; CN 201980047885 A 20190718; EP 19749244 A 20190718; EP 2019069446 W 20190718; JP 2021502443 A 20190718; KR 20217004887 A 20190718; MX 2021000267 A 20190718; US 201917260417 A 20190718; US 202318490858 A 20231020