

Title (en)

Conveying element for an eccentric screw pump and eccentric screw pump

Title (de)

Förderelement für eine Exzentrerschneckenpumpe und Exzentrerschneckenpumpe

Title (fr)

Élément de transport pour une pompe à vis sans fin excentrique et pompe à vis sans fin excentrique

Publication

**EP 2532833 A1 20121212 (DE)**

Application

**EP 11169407 A 20110610**

Priority

EP 11169407 A 20110610

Abstract (en)

The pump has a stator with internal screw threads for providing flow volumes ( $v_1$ ,  $v_2$ ), and a rotor (1) arranged in the stator. The rotor has thread pitches with an external screw thread (2) for providing one flow volume. Another external screw thread (3) for providing another flow volume is connected with the external screw thread along longitudinal direction, where the former flow volume is preferably 1.5 to 3 times higher than the latter flow volume. The internal and external screw threads are formed as integral parts.

Abstract (de)

Es wird ein Förderelement für eine Exzentrerschneckenpumpe zum Fördern eines Fluids vorgeschlagen, welche ein erstes Schraubengewinde zum Bereitstellen eines ersten Fördervolumens und ein zweites Schraubengewinde zum Bereitstellen eines zweiten Fördervolumens aufweist, wobei das erste Fördervolumen größer als das zweite Fördervolumen ist.

IPC 8 full level

**F01C 21/08** (2006.01); **F04C 2/107** (2006.01)

CPC (source: EP)

**F04C 2/084** (2013.01); **F04C 2/1071** (2013.01); **F04C 2250/20** (2013.01)

Citation (applicant)

DE 202009002823 U1 20090730 - DAUNHEIMER RALF [DE]

Citation (search report)

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Citation (third parties)

Third party :

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- GRAVESEN J.: "SPHERICAL CURVES FOR THE DESIGN OF CONICAL MOINEAU PUMPS", SIAM ACTIVITY GROUP ON GEOMETRIC DESIGN, 13 June 2012 (2012-06-13), pages 1 - 3, XP003033481
- HARRIC VAN DER HAGHEN: "THE ENGINE OF THE FUTURE PROJECT", JORDAAN, pages 1 - 8, XP003035664

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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)

**EP 2532833 A1 20121212; EP 2532833 B1 20150729**

DOCDB simple family (application)

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