

Title (en)

Rotary positive displacement pump with fixed shafts and rotating sleeves

Title (de)

Verdrängerpumpe mit festen Bolzen und Drehhülsen

Title (fr)

Pompe rotative à déplacement positif dotée d'arbres fixes et de manchons rotatifs

Publication

EP 2602428 A1 20130612 (EN)

Application

EP 11192568 A 20111208

Priority

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Abstract (en)

A rotary positive displacement pump comprising a pump housing (2) that has a rotor casing (4) with an inlet (401) and an outlet (402), wherein a first rotor (6) and a second rotor (7) are arranged in the rotor casing (4) for effecting pumping of a liquid. A first shaft (16) is fixedly connected to the pump housing (2), a first shaft sleeve (14) is rotatably arranged on the first shaft (16), a first gear (18) is connected to the first shaft sleeve (14) and the first rotor (6) is connected to the first shaft sleeve (14). The pump has a corresponding second shaft (17), second shaft sleeve (15) and second gear (19). The second rotor (7) is connected to the second shaft sleeve (15) and the second gear (19) is in mesh with the first gear (18), for effecting simultaneous rotation of the rotors (6, 7).

IPC 8 full level

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CPC (source: EP)

F01C 17/02 (2013.01); **F01C 21/02** (2013.01); **F04C 2/12** (2013.01); **F04C 15/0061** (2013.01); **F04C 15/0038** (2013.01); **F04C 15/0073** (2013.01);
F04C 2240/60 (2013.01); **F04C 2240/605** (2013.01)

Citation (applicant)

US 6095781 A 20000801 - PETERSEN JOHN EDWIN [US], et al

Citation (search report)

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- [Y] US 2880676 A 19590407 - LOUISE SUCCOP ANNA
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Cited by

CN105545728A; DE102018105723B4

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)

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