

Title (en)  
PUMPING SYSTEM WITH INNER SCROLLS

Title (de)  
PUMPSYSTEM MIT INNEREN SPIRALEN

Title (fr)  
SYSTÈME DE POMPAGE À SPIRALES INTERNES

Publication  
**EP 4306801 A1 20240117 (EN)**

Application  
**EP 22765390 A 20220302**

Priority  
• BR 102021004295 A 20210307  
• BR 2022050067 W 20220302

Abstract (en)  
The present invention relates to a novel type of rotary positive displacement pump. Said pump achieves pumping by means of the translation and rotation of a type of gear inside a casing provided with inner grooves in the shape of a toroidal thread. The pump has a novel design with various properties depending on the various possible configurations.

IPC 8 full level  
**F04B 19/20** (2006.01); **F01B 23/00** (2006.01); **F01C 3/02** (2006.01); **F04C 2/02** (2006.01); **F04C 2/077** (2006.01); **F04C 18/30** (2006.01)

CPC (source: EP)  
**F04C 3/04** (2013.01); **F04C 2/02** (2013.01); **F04C 2/08** (2013.01)

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

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**EP 4306801 A1 20240117**; BR 102021004295 A2 20220913; CN 117083458 A 20231117; WO 2022187920 A1 20220915

DOCDB simple family (application)  
**EP 22765390 A 20220302**; BR 102021004295 A 20210307; BR 2022050067 W 20220302; CN 202280020008 A 20220302