

Title (en)

Separation system between the high-pressure chamber and the low-pressure chamber in a volumetric pump

Title (de)

Trennsystem zwischen einer Hochdruckkammer und einer Niederdruckkammer in einer volumetrischen Pumpe

Title (fr)

Système de séparation entre la chambre haute pression et la chambre basse pression dans une pompe volumétrique

Publication

EP 2211059 A2 20100728 (EN)

Application

EP 10150603 A 20100113

Priority

IT MI20090017 U 20090126

Abstract (en)

The finding describes a separation system (10) between the high-pressure chamber and the low-pressure chamber in a volumetric pump of the type with gears (36, 38). The separation system (10) comprises a hub (12), torsionally forming a unit with a central pin (14) around which rotates a first gear (36) of the gears of the pump, and at least one half-moon shaped dividing wall (16), the function of which is to separate the high and low pressure chambers that are created following the rotation of the gears (36, 38) of the pump. The half-moon shaped dividing wall (16) consists of a separate component with respect to the hub (12) and is provided with connection means (18, 20) to the body of the hub (12) itself, so as to improve the efficiency and the resistance to wear of the separation system (10) and of the entire pump.

IPC 8 full level

F04C 2/10 (2006.01); **F04C 15/00** (2006.01)

CPC (source: EP)

F04C 2/086 (2013.01); **F04C 2/101** (2013.01); **F04C 13/001** (2013.01); **F04C 15/0019** (2013.01); **F04C 2240/30** (2013.01)

Citation (examination)

US 4132514 A 19790102 - ECKERLE OTTO

Designated contracting state (EPC)

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 SE SI SK SM TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

EP 2211059 A2 20100728; **EP 2211059 A3 20140806**; IT MI20090017 U1 20100727

DOCDB simple family (application)

EP 10150603 A 20100113; IT MI20090017 U 20090126