

Title (en)  
VOLUMETRIC MEMBRANE PUMP

Title (de)  
VOLUMETRISCHE MEMBRANPUMPE

Title (fr)  
POMPE VOLUMÉTRIQUE À MEMBRANE

Publication  
**EP 3557059 B1 20201111 (EN)**

Application  
**EP 19161805 A 20190311**

Priority  
IT 201800004722 A 20180419

Abstract (en)  
[origin: EP3557059A1] A volumetric membrane pump (100) is described, comprising: a guide cylinder (110), a flexible membrane (150) placed so as to close an axial end of the guide cylinder (110), a head (155) designed to define a pumping chamber (160) with the flexible membrane (150), a piston (115) fixed to the flexible membrane (150) and slidable inside the guide cylinder (110) between an upper dead centre position and a lower dead centre position, an intermediate chamber (195) defined inside the guide cylinder (110) between the flexible membrane (150) and the piston (115), a casing (140) defining an internal volume (145) suitable for being filled with lubricating oil, at least one un primary passage (205) suitable for placing the intermediate chamber (195) in communication with the internal volume (145) of the casing (140) when the piston (115) is in the lower dead centre position, and at least one secondary passage (210) suitable for placing the intermediate chamber (195) in communication with the internal volume (145) of the casing (140) when the piston (115) is in the upper dead centre position.

IPC 8 full level  
**F04B 43/02** (2006.01); **F04B 43/06** (2006.01); **F04B 53/06** (2006.01)

CPC (source: EP US)  
**F04B 43/06** (2013.01 - EP US); **F04B 53/06** (2013.01 - EP)

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

DOCDB simple family (publication)  
**EP 3557059 A1 20191023; EP 3557059 B1 20201111; DK 3557059 T3 20210215; IT 201800004722 A1 20191019**

DOCDB simple family (application)  
**EP 19161805 A 20190311; DK 19161805 T 20190311; IT 201800004722 A 20180419**