

Title (en)  
VOLUMETRIC PUMP

Title (de)  
VOLUMETRISCHE PUMPE

Title (fr)  
POMPE VOLUMÉTRIQUE

Publication  
**EP 3480460 B1 20210623 (EN)**

Application  
**EP 17382733 A 20171102**

Priority  
EP 17382733 A 20171102

Abstract (en)  
[origin: EP3480460A1] A volumetric pump (1) comprises a chamber (2) divided into a main sub-chamber (21) and a secondary sub-chamber (22) by a first diaphragm (5) which is clamped in the chamber (2). An inlet port (23) and an outlet port (24) are located in the main sub-chamber (21), and a compensation port (26) is located in the secondary sub-chamber (22). A linear actuator (6) is configured to cause a reciprocating movement in the first diaphragm (5), thus causing a variation in the volume of the main sub-chamber (21). The pump (1) also comprises a by-pass channel connecting a compensation port (26) located in the secondary sub-chamber (22) with the inlet port (23) of the main sub-chamber (21).

IPC 8 full level  
**F04B 43/02** (2006.01); **F04B 7/00** (2006.01); **F04B 43/00** (2006.01); **F04B 43/04** (2006.01)

CPC (source: EP US)  
**F04B 7/00** (2013.01 - EP US); **F04B 43/009** (2013.01 - EP); **F04B 43/046** (2013.01 - EP US)

Cited by  
CN113137363A

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 3480460 A1 20190508; EP 3480460 B1 20210623**

DOCDB simple family (application)  
**EP 17382733 A 20171102**