Title (en)

Container assembly for a volumetric pump

Title (de)

Behälteranordnung für eine volumetrische Pumpe

Title (fr)

Ensemble de conteneur pour pompe volumétrique

Publication

EP 2273121 A3 20140716 (EN)

Application

EP 10161265 A 20100428

Priority

IT MI20090188 U 20090608

Abstract (en)

[origin: EP2273121A2] Container assembly (10) for a volumetric gear pump of the type comprising a first gear (12), keyed on a first shaft (16), and a second gear (14), keyed on a second shaft (18). The first shaft (16) and the second shaft (18) are on different axes but parallel to each other, in such a manner that the first gear (12) may be engaged with the second gear (14). Also keyed on the first shaft (16) is the internal magnetic core (20) of a magnet forming the system for transmitting torque from an actuation motor (24) to the first gear (12). The magnet also comprises an external magnetic core (22), mounted coaxially around the internal magnetic core (20) and actuated directly by the actuation motor (24). The container assembly (10) comprises a container (26), made of deformable plastic material, capable of at least partly enclosing the internal (20) and external (22) magnetic cores of the magnet.

IPC 8 full level

F04C 2/08 (2006.01); F04C 23/00 (2006.01)

CPC (source: EP)

F04C 2/086 (2013.01); F04C 23/008 (2013.01); F04C 2/10 (2013.01); F04C 2/18 (2013.01); F04C 15/0069 (2013.01); F04C 2240/30 (2013.01)

Citation (search report)

- [XYI] WO 2009029855 A1 20090305 - MICROPUMP INC [US], et al
- [Y] EP 1878963 A2 20080116 - COLOMBO RENATO [IT]

Cited by

EP3144531A1; ITUB20153739A1; US2017254329A1; US10724519B2; WO2017220475A1; US10113547B2; CN108884713A; EP3617448A1; WO2017144499A1; EP3225846A2; EP3184734A1; US10890179B2

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 ME RS

DOCDB simple family (publication)

EP 2273121 A2 20110112; EP 2273121 A3 20140716; EP 2273121 B1 20160406; IT MI20090188 U1 20101209

DOCDB simple family (application)

EP 10161265 A 20100428; IT MI20090188 U 20090608