

Title (en)
METERING PUMP MADE OF PLASTIC

Title (de)
DOSIERPUMPE AUS KUNSTSTOFF

Title (fr)
POMPE DE DOSAGE EN MATIÈRE PLASTIQUE

Publication
EP 2834521 B1 20190410 (DE)

Application
EP 13704120 A 20130214

Priority
• DE 102012205568 A 20120404
• EP 2013052988 W 20130214

Abstract (en)
[origin: WO2013149750A1] The invention relates to a metering pump (1) made of plastic, with two rotors (10) coupled to one another via gears (11) and drivable in opposite directions, which are seated in a pump housing (5) equipped with suction ports (6) and outlet ports (7), wherein each rotor (10) has a rotor shaft (12), the rotor shaft ends (15) of which are seated in the walls (8, 4) of the pump housing (5). Each rotor (10) has two rotor blade walls (13) arranged diametrically on the rotor shaft (12), a partially cylindrical rotor blade shoe (14) being formed at each of the peripheral ends of said rotor blade walls, wherein the rotor blade shoes (14) on the one hand contact the cylindrical inside wall regions of the pump housing (5) and on the other contact the rotor blade shafts (13) of the adjacent rotor (10) in a sliding and sealing manner.

IPC 8 full level
F04D 1/00 (2006.01); **F04B 13/02** (2006.01); **F04C 2/12** (2006.01); **F04C 2/24** (2006.01)

CPC (source: EP US)
F04B 13/02 (2013.01 - EP US); **F04C 2/12** (2013.01 - EP US); **F04C 2/123** (2013.01 - EP US); **F04C 2/126** (2013.01 - US);
F04C 2/24 (2013.01 - US); **F04D 1/003** (2013.01 - US)

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)
DE 102012205568 A1 20131010; BR 112014024399 A2 20170620; BR 112014024399 B1 20220405; CN 104246219 A 20141224;
CN 104246219 B 20161026; EP 2834521 A1 20150211; EP 2834521 B1 20190410; ES 2735004 T3 20191213; US 10060431 B2 20180828;
US 2015056063 A1 20150226; WO 2013149750 A1 20131010

DOCDB simple family (application)
DE 102012205568 A 20120404; BR 112014024399 A 20130214; CN 201380018525 A 20130214; EP 13704120 A 20130214;
EP 2013052988 W 20130214; ES 13704120 T 20130214; US 201314390818 A 20130214