

Title (en)
Dosing pump

Title (de)
Dosierpumpe

Title (fr)
Pompe doseuse

Publication
EP 2194270 B1 20130612 (DE)

Application
EP 09013985 A 20091107

Priority
DE 202008016674 U 20081205

Abstract (en)
[origin: EP2194270A2] The pump (22) has a membrane (49) driven by an eccentric cam (36) of a crankshaft (30), which forms a wall of a pump chamber (52) and executes suction and pumping movements during operation. A connecting cable (40) is connected with a valve (26) controlled by a turning position of the crankshaft. The valve controls connection to a storage tank (68) for dosed liquid i.e. urea solution. Another connecting cable (60) is connected with another valve (28) controlling connection to a consumer (82). An electric engine is formed as a bi-directional electronically commutated engine. The electronically commutated engine is formed as an external rotor engine.

IPC 8 full level
F04B 7/00 (2006.01); **F04B 13/00** (2006.01); **F04B 43/04** (2006.01)

CPC (source: EP US)
F04B 7/00 (2013.01 - EP); **F04B 7/0053** (2013.01 - EP); **F04B 13/00** (2013.01 - EP US); **F04B 43/04** (2013.01 - EP US)

Cited by
US10584694B2; US9453507B2

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

DOCDB simple family (publication)
DE 202009016915 U1 20100429; EP 2194270 A2 20100609; EP 2194270 A3 20110921; EP 2194270 B1 20130612

DOCDB simple family (application)
DE 202009016915 U 20091204; EP 09013985 A 20091107