

Title (en)
FLUID ENERGY MACHINE, METHOD FOR GENERATING A FLUID-VOLUME FLOW AND/OR FOR COMPRESSING A FLUID, AND METHOD FOR REFUELLING A VEHICLE

Title (de)
FLUIDENERGIEMASCHINE, VERFAHREN ZUR ERZEUGUNG EINES FLUID- VOLUMENSTROMS UND/ODER ZUR KOMPRIMIERUNG EINES FLUIDS SOWIE VERFAHREN ZUR BETANKUNG EINES FAHRZEUGS

Title (fr)
MACHINE À ÉNERGIE FLUIDIQUE, PROCÉDÉ DE PRODUCTION D'UN FLUX VOLUMIQUE DE FLUIDE ET/OU DE COMPRESSION D'UN FLUIDE, AINSI QUE PROCÉDÉ DE REMPLISSAGE DU RÉSERVOIR D'UN VÉHICULE

Publication
EP 3245401 A1 20171122 (DE)

Application
EP 16700283 A 20160107

Priority
• DE 102015000382 A 20150113
• EP 2016000014 W 20160107

Abstract (en)
[origin: WO2016113120A1] The invention relates to a fluid energy machine and a method for generating a fluid-volume flow and for compressing a fluid by means of the fluid energy machine according to the invention. The invention also relates to a method for refuelling a vehicle with a fluid using the method according to the invention for generating a fluid-volume flow and for compressing a fluid, and to the use of a fluid energy machine according to the invention for refuelling a motor vehicle. The fluid energy machine comprises a crank drive (20) and a drive device (10) that is mechanically connected to the crank drive (20), by means of which drive device a torque can be introduced into the crank drive (20), as well as a piston-cylinder unit (30), the piston (32) of which is mechanically connected to the crank drive (20). The drive device (10) comprises two electric motors (50, 60), the respective output members (51, 61) of which are mechanically connected to the crank drive (20).

IPC 8 full level
F04B 15/08 (2006.01); **F04B 17/03** (2006.01); **F04B 35/04** (2006.01)

CPC (source: CN EP KR US)
F04B 15/08 (2013.01 - CN EP KR US); **F04B 17/03** (2013.01 - CN EP KR US); **F04B 35/04** (2013.01 - CN EP KR US); **F04B 9/045** (2013.01 - US); **F04B 53/148** (2013.01 - US)

Citation (examination)
• US 2698394 A 19541228 - BROWN ARTHUR E
• US 868362 A 19071015 - PRIEST EDWARD D [US]
• See also references of WO 2016113120A1

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2016113120 A1 20160721; CN 107208613 A 20170926; EP 3245401 A1 20171122; JP 2018502253 A 20180125; KR 20170103943 A 20170913; US 2018010591 A1 20180111

DOCDB simple family (application)
EP 2016000014 W 20160107; CN 201680009870 A 20160107; EP 16700283 A 20160107; JP 2017537243 A 20160107; KR 20177022594 A 20160107; US 201615543081 A 20160107