

Title (en)

Method and device for generating drive power by causing pressure differentials in a closed gas/fluid system

Title (de)

Verfahren und Vorrichtung zur Erzeugung von Antriebskraft durch Herbeiführung von Druckunterschieden in einem geschlossenen Gas-/Flüssigkeitssystem

Title (fr)

Procédé et dispositif de génération de puissance motrice en suscitant des différences de pression au sein d'un système gaz-liquide fermé

Publication

EP 2535558 B1 20161221 (DE)

Application

EP 11004923 A 20110616

Priority

EP 11004923 A 20110616

Abstract (en)

[origin: EP2535558A1] The method involves creating negative pressure which is in communication with gas pressure in insert (2) through the riser tubes (10) and liquid medium from container (1) is fed into hollow portion (3) to produce kinetic energy. The fluid medium flowing into hollow portion is extracted, and the liquid level in use runs back by increasing gas pressure in hollow portion with respect to negative pressure generated by rotor (8) with liquid level of low height during conveying operation in hollow portion. The gas pressure in hollow portion remains lower than the gas pressure in operation. An independent claim is included for device for producing continuous driving force by providing kinetic energy of liquid medium.

IPC 8 full level

F03B 17/00 (2006.01)

CPC (source: EP US)

F03B 3/00 (2013.01 - US); **F03B 17/00** (2013.01 - US); **F03B 17/005** (2013.01 - EP US)

Cited by

NL2025860B1; NL2026524B1; WO2021256924A1

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)

EP 2535558 A1 20121219; EP 2535558 B1 20161221; CN 103906918 A 20140702; CN 103906918 B 20170912; EA 033371 B1 20191031; EA 201490023 A1 20140530; ES 2620368 T3 20170628; JP 2014519576 A 20140814; JP 6067004 B2 20170125; PL 2535558 T3 20170929; US 10077755 B2 20180918; US 2014133961 A1 20140515; WO 2012171628 A1 20121220

DOCDB simple family (application)

EP 11004923 A 20110616; CN 201280039755 A 20120611; EA 201490023 A 20120611; EP 2012002458 W 20120611; ES 11004923 T 20110616; JP 2014515084 A 20120611; PL 11004923 T 20110616; US 201214126017 A 20120611