

Title (en)

VIBRATING DRIVING ARRANGEMENT, AND METHOD FOR OPERATING THE VIBRATING DRIVING ARRANGEMENT

Title (de)

VIBRATIONSRAMMANORDNUNG SOWIE VERFAHREN ZUM BETRIEB DER VIBRATIONSRAMMANORDNUNG

Title (fr)

ENSEMBLE DE BATTAGE PAR VIBRATIONS ET PROCÉDÉ DE FONCTIONNEMENT D'UN ENSEMBLE DE BATTAGE PAR VIBRATIONS

Publication

EP 2984241 A1 20160217 (DE)

Application

EP 14722540 A 20140403

Priority

- DE 102013103722 A 20130412
- EP 2014000888 W 20140403

Abstract (en)

[origin: WO2014166608A1] The invention relates to a vibrating ram arrangement comprising a hydraulic assembly (1), a vibrator (2) which is connected to the hydraulic assembly (1) via hydraulic tubes (3), and a controller (S) which is paired with the hydraulic assembly (1). The hydraulic assembly (1) has a hydraulic pump (6) which is driven by an internal combustion engine (5), and the vibrator (2) has imbalances (11) and an adjustable hydraulic engine (2) for driving the imbalances (11). A hydraulic fluid is conducted through the hydraulic assembly (1), the hydraulic tubes (3), and the hydraulic engine (10) in a circuit. A frequency sensor (14) for determining the frequency of the vibrator (2) is connected to the controller (S), and the controller (S) is designed to control a volumetric flow rate conducted through the circuit dependent on the signal of the frequency sensor (14). According to the invention, the vibrator (2) has a device (12), which is independent of the controller (S), for automatically adjusting a displacement volume of the hydraulic engine (10) dependent on a pressure within the circuit.

IPC 8 full level

E02D 7/18 (2006.01)

CPC (source: EP US)

B06B 1/02 (2013.01 - US); **E02D 7/18** (2013.01 - EP US); **F15B 11/08** (2013.01 - US); **F15B 13/0401** (2013.01 - US); **F15B 2211/20523** (2013.01 - US); **F15B 2211/20546** (2013.01 - US); **F15B 2211/255** (2013.01 - US); **F15B 2211/405** (2013.01 - US)

Citation (search report)

See references of WO 2014166608A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ 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)

DE 102013103722 A1 20141016; **DE 102013103722 B4 20161013**; EP 2984241 A1 20160217; EP 2984241 B1 20170531; US 10385883 B2 20190820; US 2016061227 A1 20160303; WO 2014166608 A1 20141016

DOCDB simple family (application)

DE 102013103722 A 20130412; EP 14722540 A 20140403; EP 2014000888 W 20140403; US 201414783313 A 20140403