

Title (en)

PERCUSSION DEVICE OF ROCK BREAKING DEVICE AND METHOD FOR CONTROLLING PERCUSSION DEVICE

Title (de)

SCHLAGVORRICHTUNG FÜR EINE GESTEINSZERTRÜMMERUNGSVORRICHTUNG UND VERFAHREN ZUR STEUERUNG DER SCHLAGVORRICHTUNG

Title (fr)

APPAREIL DE PERCUSSION ET DE CONCASSAGE DE ROCHES ET MÉTHODE DE CONTRÔLE DU DISPOSITIF DE PERCUSSION

Publication

**EP 2718064 A4 20141210 (EN)**

Application

**EP 12797515 A 20120606**

Priority

- FI 20115550 A 20110607
- FI 2012050565 W 20120606

Abstract (en)

[origin: WO2012168558A1] The invention relates to a percussion device of a rock breaking device and to a method for controlling the percussion device. The percussion device (11) comprises a percussion piston (22), the work cycle of which is controlled by means of a sleeve-like control valve (31). An annular space between the percussion piston and valve has impulse spaces (34, 35) in the impact direction (A) and return direction (B). A pressure pulse is generated in the impulse spaces, when their pressure connection (Y1, Y2) is closed by means of an impulse edge (S1, S2) in the percussion piston. The pressure pulse acts on a pressure surface (36, 37) of the valve in the impulse space and generates an initial impulse for the alternating movement of the valve, and the valve then changes its position.

IPC 8 full level

**B25D 9/18** (2006.01); **B25D 9/12** (2006.01); **B25D 9/20** (2006.01); **E21B 1/26** (2006.01)

CPC (source: EP FI US)

**B25D 9/12** (2013.01 - EP FI); **B25D 9/18** (2013.01 - EP); **B25D 9/20** (2013.01 - EP FI); **E21B 1/36** (2020.05 - EP FI US); **B25D 2209/005** (2013.01 - EP)

Citation (search report)

- No further relevant documents disclosed
- See references of WO 2012168558A1

Cited by

WO2023198585A1

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)

**WO 2012168558 A1 20121213**; EP 2718064 A1 20140416; EP 2718064 A4 20141210; EP 2718064 B1 20150812; FI 123189 B 20121214; FI 20115550 A0 20110607

DOCDB simple family (application)

**FI 2012050565 W 20120606**; EP 12797515 A 20120606; FI 20115550 A 20110607