

Title (en)

PNEUMATIC PERCUSSIVE TOOL WITH A MOVEMENT FREQUENCY CONTROLLED IDLING POSITION

Title (de)

LUFTFEDERSCHLAGWERK MIT BEWEGUNGSFREQUENZGESTEUERTEM LEERLAUFZUSTAND

Title (fr)

OUTIL DE PERCUSSION A AMORTISSEMENT PNEUMATIQUE A FONCTIONNEMENT AU RALENTI COMMANDE PAR FREQUENCE DE MOUVEMENTS

Publication

**EP 1368160 B1 20041020 (DE)**

Application

**EP 02712942 A 20020311**

Priority

- DE 10111717 A 20010312
- EP 0202657 W 20020311

Abstract (en)

[origin: WO02072315A1] The invention relates to a pneumatic percussive tool for a paving breaker and/or a hammer drill comprising a drive piston (3) which is displaceable both backwards and forwards by a crankshaft (1) and arranged in a percussion piston (4) which is displaceable both backwards and forwards. A hollow chamber (6) is connected to a compensating chamber (11) by an idling air channel (8, 9, 10) and embodied between the drive piston (3) and the percussion piston (4) in order to receive a pneumatic spring. A valve is arranged in the idling air channel (8, 9, 10), the opening and closing position thereof depending on the rotational speed of the crankshaft (1). If the rotational speed of the crankshaft (1) falls below a predetermined value, the valve (12) opens the connection between the hollow chamber (6) and the compensating chamber (11) so that a pneumatic spring can no longer be embodied in the hollow chamber (6) and the pneumatic percussion tool is placed in an idling position.

IPC 1-7

**B25D 11/00**

IPC 8 full level

**B25D 11/12** (2006.01); **B23B 45/16** (2006.01); **B25D 9/18** (2006.01); **B25D 11/00** (2006.01)

CPC (source: EP US)

**B25D 11/005** (2013.01 - EP US); **B25D 2250/221** (2013.01 - EP US)

Citation (examination)

- DE 2641070 A1 19780316 - BOSCH GMBH ROBERT
- EP 0876880 A2 19981111 - HILTI AG [LI]

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DOCDB simple family (publication)

**WO 02072315 A1 20020919**; DE 10111717 C1 20021024; DE 50201361 D1 20041125; EP 1368160 A1 20031210; EP 1368160 B1 20041020; ES 2227447 T3 20050401; JP 2004521756 A 20040722; JP 4124655 B2 20080723; US 2004065455 A1 20040408; US 6938704 B2 20050906

DOCDB simple family (application)

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