

Title (en)

PERCUSSIVE MECHANISM WITH AN ELECTRODYNAMIC LINER DRIVE

Title (de)

SCHLAGWERK MIT ELEKTRODYNAMISCHEM LINEARANTRIEB

Title (fr)

MECANISME DE PERCUSSION A ENTRAINEMENT LINEAIRE ELECTRODYNAMIQUE

Publication

EP 1896222 A1 20080312 (DE)

Application

EP 06754612 A 20060628

Priority

- EP 2006006271 W 20060628
- DE 102005030340 A 20050629

Abstract (en)

[origin: WO2007000344A1] A percussive mechanism, which is provided in the form of an, e.g. pneumatic spring percussive mechanism, comprises an electrodynamic linear drive, a drive piston (1), which can be reciprocally moved inside a percussive mechanism housing (9) by the linear drive, and a percussive piston (3). An additional hollow space (14, 17) is provided in front of and/or behind the drive piston (1) and can be isolated at least in part from the surrounding area so that a pneumatic spring can be created in the additional hollow space (14, 17). The pneumatic spring slows the drive piston (1) at its returning points and facilitates a returning motion without loading the electrodynamic linear drive.

IPC 8 full level

B25D 11/06 (2006.01)

CPC (source: EP US)

B25D 11/064 (2013.01 - EP US); **B25D 2250/375** (2013.01 - EP US)

Citation (search report)

See references of WO 2007000344A1

Citation (examination)

- EP 0718075 A1 19960626 - AVERBUKH MOSHE [IL]
- EP 0377754 A1 19900718 - INST GORNOGO DELA SIBIRSKOGO O [SU]

Designated contracting state (EPC)

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DOCDB simple family (publication)

DE 102005030340 B3 20070104; CN 101203359 A 20080618; CN 101203359 B 20110921; EP 1896222 A1 20080312; JP 2008544871 A 20081211; JP 5130207 B2 20130130; US 2010236802 A1 20100923; US 8534377 B2 20130917; WO 2007000344 A1 20070104

DOCDB simple family (application)

DE 102005030340 A 20050629; CN 200680022593 A 20060628; EP 06754612 A 20060628; EP 2006006271 W 20060628; JP 2008519836 A 20060628; US 99315206 A 20060628