

Title (en)
Machine tool

Title (de)
Werkzeugmaschine

Title (fr)
Machine-outil

Publication
EP 2653269 A3 20170104 (DE)

Application
EP 13163866 A 20130416

Priority
DE 102012206445 A 20120419

Abstract (en)
[origin: EP2653269A2] The tool e.g. electrical drilling hammer (1), has a tool holder (2) for holding a chiseling tool on an operating axis (10). A pneumatic hammer mechanism (6) comprises a hammer unit (13) moved on the axis. An exciter (12) is driven by a motor (5) between a tool-far front dead point and a tool-near dead point. A pneumatic chamber (15) couples movement of the exciter to the hammer unit. A damping device comprises a controlled exhaust valve passing air from a blower into the pneumatic chamber, if the exciter is provided in proximity of the tool-far dead point. The exciter and the hammer unit are designed as a cylindrical piston. An independent claim is also included for a method for controlling a hand-held machine tool.

IPC 8 full level
B25D 17/06 (2006.01); **B25D 17/24** (2006.01)

CPC (source: EP US)
B25D 9/06 (2013.01 - US); **B25D 17/06** (2013.01 - EP US); **B25D 17/24** (2013.01 - EP US); **B25D 17/245** (2013.01 - US); **B25D 2211/068** (2013.01 - EP US); **B25D 2217/0019** (2013.01 - EP US); **B25D 2217/0023** (2013.01 - EP US); **B25D 2250/185** (2013.01 - EP US); **B25D 2250/345** (2013.01 - EP US)

Citation (search report)
• [XY] EP 0438029 A1 19910724 - SULZER AG [CH]
• [Y] EP 2394793 A1 20111214 - HILTI AG [LI]

Cited by
EP2871028A1; WO2015067590A1

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 2653269 A2 20131023; EP 2653269 A3 20170104; CN 103372851 A 20131030; CN 103372851 B 20160727;
DE 102012206445 A1 20131024; JP 2013223916 A 20131031; US 2013277077 A1 20131024

DOCDB simple family (application)
EP 13163866 A 20130416; CN 201310132618 A 20130417; DE 102012206445 A 20120419; JP 2013086742 A 20130417;
US 201313865729 A 20130418