

Title (en)
Hand-held machine tool and control method

Title (de)
Handwerkzeugmaschine und Steuerungsverfahren

Title (fr)
Machine-outil manuelle et procédé de commande

Publication
EP 2653270 A3 20170809 (DE)

Application
EP 13163889 A 20130416

Priority
DE 102012206452 A 20120419

Abstract (en)
[origin: EP2653270A2] The power tool has a pneumatic rammer (6) that is driven by a motor (5) around a hub. An exciter (12) is driven between tool far dead center and tool near dead center. A pneumatic chamber (15) is locked by exciter. A racket (13) is moved between tool distal reversal point and percussion point. The movement of racket is coupled to the movement of the exciter. The pressure in the pneumatic chamber is increased by damping device (39), when the exciter is less than 10% of the stroke during movement towards the tool far dead center. An independent claim is included for control method of hand-held power tool.

IPC 8 full level
B25D 11/12 (2006.01); **B25D 17/24** (2006.01)

CPC (source: EP US)
B25D 11/125 (2013.01 - EP US); **B25D 17/245** (2013.01 - EP US); **B25D 2211/068** (2013.01 - EP US); **B25D 2250/195** (2013.01 - EP US); **B25D 2250/221** (2013.01 - EP US)

Citation (search report)

- [XAI] EP 1607187 A1 20051221 - HILTI AG [LI]
- [XAI] DE 2538896 A1 19770714 - BENDER BERNHARD DIPL ING DIPL

Cited by
US2016271779A1; EP3181298A1; EP3181300A1; EP3181299A1; EP3181301A1; EP2871028A1; US10675742B2; WO2015067590A1; WO2017102437A1; WO2017102431A1; WO2017102418A1; WO2017102429A1; US10821589B2; US10821590B2

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 2653270 A2 20131023; EP 2653270 A3 20170809; EP 2653270 B1 20180919; CN 103372852 A 20131030; DE 102012206452 A1 20131024; JP 2013223918 A 20131031; JP 6203524 B2 20170927; US 2013284473 A1 20131031

DOCDB simple family (application)
EP 13163889 A 20130416; CN 201310132609 A 20130417; DE 102012206452 A 20120419; JP 2013086832 A 20130417; US 201313865747 A 20130418