

Title (en)

Handtool machine with vibration balancing mass

Title (de)

Handwerkzeugmaschine mit Schwingungsausgleichsmasse

Title (fr)

Machine-outil à main avec masse d'équilibrage de vibration

Publication

EP 2047952 A1 20090415 (DE)

Application

EP 08105444 A 20080926

Priority

DE 102007000837 A 20071009

Abstract (en)

The tool has a vibration-compensating mass (3) secured on a housing (2). A rigid compensation mass (4) oscillates along an oscillation axis (A), and is formed of a set of mass components fixedly connected with each other. A spring (5) is provided for resiliently supporting the compensation mass relative to the housing. The mass components comprise a set of stacked mass components arranged along the oscillation axis. The spring is located in a pocket-shaped prismatic recess (11) formed in the compensation mass.

Abstract (de)

Eine Handwerkzeugmaschine (1) mit zumindest einer an einem Gehäuse (2) befestigten Schwingungsausgleichsmasse (3) mit zumindest einer axial längs einer Schwingungsachse (A) schwingbaren, in sich starre Ausgleichsmasse (4), welche über zumindest eine Feder (5) zum Gehäuse (2) axial federnd gelagert ist, wobei die in sich starre Ausgleichsmasse (4) aus starr verbundenen Teilmassen bestehend ausgebildet ist.

IPC 8 full level

B25D 17/24 (2006.01)

CPC (source: EP US)

B25D 17/24 (2013.01 - EP US); **B25D 2217/0092** (2013.01 - EP US)

Citation (applicant)

- EP 1415768 A1 20040506 - ATLAS COPCO ELECTRIC TOOLS [DE]
- FR 2237734 A1 19750214 - INST NAL RECH SECURITE [FR]
- DE 815179 C 19511001 - BOLLENRATH FRANZ DR-ING
- DE 1281970 B 19681031 - REICHSBAHN VERTRETEN DURCH DEN
- EP 1252976 A1 20021030 - BLACK & DECKER INC [US]

Citation (search report)

- [XY] EP 1415768 A1 20040506 - ATLAS COPCO ELECTRIC TOOLS [DE]
- [Y] EP 1779979 A1 20070502 - MAKITA CORP [JP]

Cited by

EP2436489A3; CN102666028A; WO2011072910A1; US10137592B2; US10940605B2; US11724413B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

EP 2047952 A1 20090415; **EP 2047952 B1 20120822**; CN 101407051 A 20090415; CN 101407051 B 20121205; DE 102007000837 A1 20090416; US 2009090528 A1 20090409

DOCDB simple family (application)

EP 08105444 A 20080926; CN 200810168961 A 20081007; DE 102007000837 A 20071009; US 28465008 A 20080923