

Title (en)
POWER-DRIVEN ELECTRIC HAND TOOL

Publication
EP 0068206 B1 19870401 (DE)

Application
EP 82105053 A 19820609

Priority
DE 3125860 A 19810701

Abstract (en)
[origin: US4511074A] An electrically-operated manual device, such as a nail driver, has an electric motor for actuating an axially-movable impact body. The motor is a vibrating armature AC motor having a single-sided movably arranged vibrating armature which, in dependence of the power supply frequency, acts with a high impact frequency on a low-mass impact body. The impact body is located in a stationary cylinder connected to a housing of the device and has a detachable adapter sleeve which receives a plunger activated via the impact body on a part to be driven. The configuration of the device makes it possible to construct a nail driver or the like with an extremely compact structure since the cylinder equipped with the impact body can be arranged immediately adjacent the vibrating armature AC motor. The power losses are negligible because the vibrating armature, swinging about an axis, acts directly on the low-mass impact body. In addition, it is possible to construct adapter sleeves for connection to the cylinder for different driving applications.

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B25C 1/06

IPC 8 full level
B25C 1/06 (2006.01)

CPC (source: EP KR US)
B25C 1/06 (2013.01 - EP KR US); **Y10T 279/35** (2015.01 - EP US)

Cited by
EP2298501A4; US11950677B2

Designated contracting state (EPC)
CH DE FR GB IT LI

DOCDB simple family (publication)
EP 0068206 A2 19830105; EP 0068206 A3 19831012; EP 0068206 B1 19870401; AU 8513782 A 19830106; BR 8203827 A 19830628; DE 3125860 A1 19830127; DE 3125860 C2 19831215; DE 3275914 D1 19870507; IN 156016 B 19850427; JP S5810469 A 19830121; KR 840000333 A 19840218; KR 860000208 B1 19860315; US 4511074 A 19850416

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EP 82105053 A 19820609; AU 8513782 A 19820623; BR 8203827 A 19820630; DE 3125860 A 19810701; DE 3275914 T 19820609; IN 605CA1982 A 19820525; JP 10862782 A 19820625; KR 820002581 A 19820609; US 39366182 A 19820630