

Title (en)
Hand tool

Title (de)
Handwerkzeugmaschine

Title (fr)
Outil à main

Publication
EP 2428324 A3 20120829 (DE)

Application
EP 11176120 A 20110801

Priority
US 87392710 A 20100901

Abstract (en)
[origin: EP2428324A2] The tool i.e. hammer drill (1), has a drive (4) arranged within a machine housing (8). A first mating surface of a first carrier facing the machine housing is engaged with a second mating surface of a second carrier facing a handle (17). The first mating surface engages the second mating surface by a force applied by a spring acting parallel to a working axis (5) in a basic position. The first mating surface does not engage the second mating surface in a working position such that an air gap separates the mating surfaces. The spring element contains a damping cushion made of an elastic plastic.

IPC 8 full level
B25D 17/04 (2006.01); **B25F 5/00** (2006.01)

CPC (source: EP US)
B25D 17/043 (2013.01 - EP US); **B25F 5/006** (2013.01 - EP US); **B25D 2222/69** (2013.01 - EP US); **B25D 2250/371** (2013.01 - EP US)

Citation (search report)

- [X] DE 102004051465 A1 20060427 - BOSCH GMBH ROBERT [DE]
- [X] EP 1867442 A2 20071219 - HITACHI KOKI KK [JP]
- [X] EP 1707321 A1 20061004 - MAKITA CORP [JP]
- [A] EP 0370952 A1 19900530 - HILTI AG [LI]
- [A] EP 1944134 A1 20080716 - AEG ELECTRIC TOOLS GMBH [DE]
- [A] DE 102006021307 A1 20071115 - BOSCH GMBH ROBERT [DE]
- [A] DE 202008008844 U1 20081120 - EINHELL GERMANY AG [DE]

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 2428324 A2 20120314; EP 2428324 A3 20120829; US 2012048580 A1 20120301

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