

Title (en)
Rotary impact screwdriver with a striking mechanism

Title (de)
DrehSchlagschrauber mit einem Schlagwerk

Title (fr)
Clé à chocs dotée d'un mécanisme de percussion

Publication
EP 2684645 A3 20171018 (DE)

Application
EP 13172429 A 20130618

Priority
DE 102012211910 A 20120709

Abstract (en)
[origin: EP2684645A2] The screwdriver (100) has a rammer (122) striking a drive of a driven shaft (124), and a mode switching element (123) switching between non-striking and striking operations of the rammer. A sensing element (162) i.e. acceleration sensor, detects an operational parameter of the screwdriver, where the operational parameter is evaluated for the determination of switching point of time for switching from the non-striking operation into the striking operation of the rammer. A control unit (164) determines the switching point of time on the basis of the evaluated operational parameter. The operational parameter is selected from a rotational speed of a motor shaft (116) of an associated drive motor (114).

IPC 8 full level
B25B 21/00 (2006.01); **B25B 21/02** (2006.01)

CPC (source: CN EP)
B25B 21/02 (2013.01 - CN EP); **B25B 23/1475** (2013.01 - CN EP)

Citation (search report)

- [X] WO 2011013853 A2 20110203 - HITACHI KOKI KK [JP], et al
- [X] DE 102005015900 A1 20060216 - MARQUARDT GMBH [DE]
- [X] WO 2012025820 A1 20120301 - TOYOTA MOTOR CO LTD [JP], et al
- [X] EP 1738877 A2 20070103 - MATSUSHITA ELECTRIC WORKS LTD [JP]

Cited by
US10272550B2; US10583545B2; US11484999B2; US11813722B2

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)
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DOCDB simple family (application)
EP 13172429 A 20130618; CN 201310283816 A 20130708; DE 102012211910 A 20120709