

Title (en)
Power tool

Title (de)
Kraftgetriebenes Handwerkzeug

Title (fr)
Outil électrique

Publication
EP 2724823 A1 20140430 (EN)

Application
EP 13183832 A 20130911

Priority
JP 2012201532 A 20120913

Abstract (en)
A power tool includes a control unit (23) that controls a gear shift actuator (27) to increase the speed reduction ratio of the power transmission unit (22) as the battery voltage detected by the voltage sensor (S) becomes less than or equal to a predetermined voltage when the speed reduction ratio of the power transmission unit (22) is low. By increasing the speed reduction ratio in this manner, the influence of the internal resistance of a battery pack (12) may be reduced. This allows for the power tool may be continuously used and improves the operability. Further, the control unit (23) stops driving the motor (21) as the battery voltage of the battery (12) detected by the voltage sensor (S) becomes less than or equal to a predetermined voltage when the speed reduction ratio of the power transmission unit (22) is relatively high.

IPC 8 full level
B25F 5/00 (2006.01)

CPC (source: EP)
B25F 5/00 (2013.01)

Citation (applicant)
JP H1190845 A 19990406 - MATSUSHITA ELECTRIC WORKS LTD

Citation (search report)
• [AD] JP H1190845 A 19990406 - MATSUSHITA ELECTRIC WORKS LTD
• [A] WO 2012114815 A1 20120830 - PANASONIC ECO SOLUTIONS POWER TOOLS CO LTD [JP], et al

Cited by
US11770079B2; 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)
EP 2724823 A1 20140430; EP 2724823 B1 20151021; CN 103659749 A 20140326; CN 103659749 B 20160427; JP 2014054708 A 20140327

DOCDB simple family (application)
EP 13183832 A 20130911; CN 201310409835 A 20130910; JP 2012201532 A 20120913