

Title (en)  
Power tool

Title (de)  
Kraftgetriebenes Handwerkzeug

Title (fr)  
Outil électrique

Publication  
**EP 2724822 A1 20140430 (EN)**

Application  
**EP 13182738 A 20130903**

Priority  
JP 2012197103 A 20120907

Abstract (en)  
A power tool (10) includes a motor (21) that generates rotational power and a power transmission unit (22) that transmits the rotational power from the motor to an output shaft (25). The power transmission unit is configured to reduce a rotation speed related to the rotational power and be capable of shifting a speed reduction ratio. A gear shift actuator (27) shifts a speed reduction ratio of the power transmission unit. A torque detector (41) detects a load torque applied to the output shaft. A control unit (23) controls the gear shift actuator to shift the speed reduction ratio of the power transmission unit in accordance with the detected load torque. The control unit reduces an output of the motor until a predetermined time elapses from when the control unit increased the speed reduction ratio of the power transmission unit by controlling the power transmission unit.

IPC 8 full level  
**B25F 5/00** (2006.01)

CPC (source: EP)  
**B25F 5/001** (2013.01)

Citation (applicant)  
JP 2012030347 A 20120216 - PANASONIC ELECTRIC WORKS POWER

Citation (search report)  
• [XA] WO 2012114815 A1 20120830 - PANASONIC ECO SOLUTIONS POWER TOOLS CO LTD [JP], et al  
• [XA] WO 2012114804 A1 20120830 - PANASONIC ECO SOLUTIONS POWER TOOLS CO LTD [JP], et al  
• [XA] US 2011232933 A1 20110929 - KONDO TOMOYUKI [JP], et al  
• [AD] JP 2012030347 A 20120216 - PANASONIC ELECTRIC WORKS POWER

Cited by  
CN112140066A

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 2724822 A1 20140430; EP 2724822 B1 20170614**; CN 103659747 A 20140326; CN 103659747 B 20160120; JP 2014050924 A 20140320; JP 5958817 B2 20160802

DOCDB simple family (application)  
**EP 13182738 A 20130903**; CN 201310395546 A 20130903; JP 2012197103 A 20120907