

Title (en)  
Power tool

Title (de)  
Kraftgetriebenes Handwerkzeug

Title (fr)  
Outil électrique

Publication  
**EP 2708329 A1 20140319 (EN)**

Application  
**EP 13183461 A 20130909**

Priority  
JP 2012201531 A 20120913

Abstract (en)  
A power tool that suppresses unexpected changes in the speed reduction ratio. A control unit (23) controls a gear shift actuator (27) to shift a speed reduction ratio of a power transmission unit (22) in accordance with the detected load torque. After shifting the speed reduction ratio, when a ring gear (RG) is not located at a target position corresponding to the shifted speed reduction ratio, that is, when a cam (30) is not located at a first engagement position or a second engagement position, the control unit (23) uses the gear shift actuator (27) to pivot the cam (30) again and move the ring gear (RG).

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)  
• [AD] JP 2012030347 A 20120216 - PANASONIC ELECTRIC WORKS POWER  
• [A] US 2009277658 A1 20091112 - CHEN CHENGZHONG [CN]  
• [A] US 6165096 A 20001226 - SEITH WARREN A [US]

Cited by  
EP3135438A1; DE102015211689A1; DE102015211700A1; WO2016206861A1; US11981016B2; WO2021083680A1; US10661424B2; US11224961B2; US11904451B2

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 2708329 A1 20140319; EP 2708329 B1 20141126**; CN 103659748 A 20140326; CN 103659748 B 20160810; JP 2014054707 A 20140327; JP 5963136 B2 20160803

DOCDB simple family (application)  
**EP 13183461 A 20130909**; CN 201310408213 A 20130910; JP 2012201531 A 20120913