

Title (en)
POWER SCREWDRIVER

Title (de)
KRAFTSCHRAUBER

Title (fr)
VISSEUSE ÉLECTRIQUE

Publication
EP 2139645 A2 20100106 (DE)

Application
EP 08757968 A 20080421

Priority
• DE 2008000677 W 20080421
• DE 102007019408 A 20070423

Abstract (en)
[origin: WO2008128525A2] The invention relates to a power screwdriver (10) comprising a motor (12) and a control circuit (22) which switches the motor (12) off by means of a switch-off signal (s_Stop) when it reaches a preset desired torque value (Md_Soll), and a supporting arm (18) which absorbs energy during screwing. The invention is characterized by a voltage limiting circuit (46) that limits the motor voltage (u_Mot) occurring on the motor (12) when the energy stored in the supporting arm (18) of the motor (12), which is driven as the generator and rotates counter to the direction of drive, is dissipated, to a predetermined limiting voltage (u_Lim). Said limiting voltage (u_Lim) is fixed in such a manner that the motor (12) is capable of rotating without counter-torque counter to the direction of drive when operated in the generator mode and that yet no inadmissible overvoltages occur.

IPC 8 full level
B25B 23/147 (2006.01); **B25B 21/00** (2006.01); **H02H 9/04** (2006.01)

CPC (source: EP US)
B25B 21/00 (2013.01 - EP US); **B25B 23/0078** (2013.01 - EP US); **B25B 23/147** (2013.01 - EP US)

Citation (search report)
See references of WO 2008128525A2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2008128525 A2 20081030; WO 2008128525 A3 20081224; AR 066255 A1 20090805; AT E515376 T1 20110715; BR PI0810663 A2 20141104; BR PI0810663 A8 20190115; BR PI0810663 B1 20190827; CA 2684787 A1 20081030; CA 2684787 C 20150616; CL 2008001168 A1 20081003; CN 101754835 A 20100623; CN 101754835 B 20130918; DE 102007019408 B3 20081127; DK 2139645 T3 20111017; EP 2139645 A2 20100106; EP 2139645 B1 20110706; RU 2009142993 A 20110527; RU 2469838 C2 20121220; TW 200900202 A 20090101; TW I428209 B 20140301; US 2010101381 A1 20100429; US 8171827 B2 20120508

DOCDB simple family (application)
DE 2008000677 W 20080421; AR P080101697 A 20080423; AT 08757968 T 20080421; BR PI0810663 A 20080421; CA 2684787 A 20080421; CL 2008001168 A 20080423; CN 200880021554 A 20080421; DE 102007019408 A 20070423; DK 08757968 T 20080421; EP 08757968 A 20080421; RU 2009142993 A 20080421; TW 97114760 A 20080423; US 45101408 A 20080421