

Title (en)
POWER TOOL

Title (de)
ELEKTROWERKZEUG

Title (fr)
OUTIL ÉLECTRIQUE

Publication
EP 3419789 A1 20190102 (EN)

Application
EP 17704723 A 20170209

Priority
• SE 1650255 A 20160226
• EP 2017052849 W 20170209

Abstract (en)
[origin: WO2017144281A1] A method of tightening a joint by means of a handheld power tool, the method comprising the following steps: • monitoring the torque (T) during a tightening operation; • monitoring an angle (α) of the output shaft (11) relative to the surrounding area by means of a combined monitoring of an angle of rotation (α_a) of the output shaft (11) about the axis of the output shaft with respect to the housing (14), and an angle of rotation (α_b) of the housing (14) around the axis of the output shaft relative to the surrounding area; • calculating an instantaneous differential coefficient ($dT/d\alpha$) of the monitored torque (T) per monitored angle (α) of the output shaft relative to the surrounding area, and • interrupting the tightening operation in response to a predetermined decrease of the instantaneous differential coefficient ($dT/d\alpha$) of the monitored torque per monitored angle of the output shaft relative to the surrounding area.

IPC 8 full level
B25B 21/00 (2006.01); **B25B 23/142** (2006.01); **B25B 23/147** (2006.01)

CPC (source: EP)
B25B 21/00 (2013.01); **B25B 23/1425** (2013.01); **B25B 23/147** (2013.01)

Citation (search report)
See references of WO 2017144281A1

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)
WO 2017144281 A1 20170831; EP 3419789 A1 20190102

DOCDB simple family (application)
EP 2017052849 W 20170209; EP 17704723 A 20170209