

Title (en)  
ELECTRIC TOOL

Title (de)  
ELEKTROWERKZEUG

Title (fr)  
OUTIL ÉLECTRIQUE

Publication  
**EP 2826604 A4 20160113 (EN)**

Application  
**EP 13761505 A 20130220**

Priority  
• JP 2012055966 A 20120313  
• JP 2013000947 W 20130220

Abstract (en)  
[origin: EP2826604A1] The control circuit (14) of an electric tool (1) estimates the output interval of a sensor signal from a hole element (S) on the basis of the rotational speed of a motor (3), and sets an abnormality detection time in accordance with the estimated output interval. After actually detecting the sensor signal from the hole element (S), the control circuit (14) determines that there is an abnormality when a subsequent sensor signal is not verified within the abnormality detection time. The control circuit (14) is provided with an abnormality detection time algorithm in which the abnormality detection time is set shorter the faster the rotational speed of the motor (3), and the abnormality detection time is set longer the slower the rotational speed of the motor.

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

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

Citation (search report)  
• [XYI] EP 2127824 A2 20091202 - MAKITA CORP [JP]  
• [X] WO 2011158629 A1 20111222 - MAKITA CORP [JP], et al & EP 2572832 A1 20130327 - MAKITA CORP [JP]  
• [Y] JP 2008023645 A 20080207 - MAKITA CORP  
• [YD] JP 2011011313 A 20110120 - HITACHI KOKI KK  
• [A] WO 2011118475 A1 20110929 - PANASONIC ELECTRIC WORKS POWER [JP], et al & EP 2554334 A1 20130206 - PANASONIC CORP [JP]  
• See references of WO 2013136673A1

Cited by  
US9768713B2; WO2019046302A1; US11085582B2; US11539314B2; US11674642B2; US12025271B2

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

DOCDB simple family (publication)  
**EP 2826604 A1 20150121; EP 2826604 A4 20160113; EP 2826604 B1 20171122**; CN 104159712 A 20141119; CN 104159712 B 20160803; JP 2013188825 A 20130926; WO 2013136673 A1 20130919

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