

Title (en)
POWER TOOL WITH ERGONOMIC HANDGRIP

Title (de)
ELEKTROWERKZEUG MIT ERGONOMISCHEM HANDGRIFF

Title (fr)
OUTIL ÉLECTRIQUE AVEC POIGNÉE ERGONOMIQUE

Publication
EP 3059051 A1 20160824 (EN)

Application
EP 16151118 A 20160113

Priority
US 201514595468 A 20150113

Abstract (en)
A power tool (10) with an ergonomic handgrip (50) includes a housing (12), a motor (14) in the housing (12), a working end (16) coupled to a front end of the housing (12), a handle (40) extending distally from the housing (12), and a trigger (30) coupled to the handle (40). The housing (12) defines a tool axis, the handle (40) defines a handle axis, and the trigger (30) defines a trigger axis in its direction of movement. A first gripping region (52) includes a rear concave recess (60) on a rear end of the housing (12) and a lateral concave recess (56) along a lateral sidewall of the housing (12) parallel to the tool axis. A vertical line extending from an innermost point (64) of the rear concave recess (60) intersects the trigger axis forward of where the trigger axis intersects the handle axis. A second gripping region (54) includes a convex surface (65) on a rear portion (41) of the handle (40) with an elliptical curvature having an eccentricity less than 0.5.

IPC 8 full level
B25G 1/10 (2006.01); **B25F 5/02** (2006.01)

CPC (source: EP)
B25F 5/02 (2013.01)

Citation (search report)
• [X] EP 2186609 A2 20100519 - MAKITA CORP [JP]
• [X] DE 202013105823 U1 20140410 - HITACHI KOKI KK [JP]
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• [X] US 2011094764 A1 20110428 - WEI GAN [CN]
• [A] EP 2221150 A1 20100825 - BLACK & DECKER INC [US]
• [A] US 2006137144 A1 20060629 - TILLIM STEPHEN L [US], et al

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FR3075680A1; US2015151424A1; CN113910171A

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 3059051 A1 20160824; EP 3235604 A1 20171025; EP 3235604 B1 20190626

DOCDB simple family (application)
EP 16151118 A 20160113; EP 17172918 A 20160113