

Title (en)

Electric power tool

Title (de)

Elektrisches Werkzeug

Title (fr)

Outil électrique

Publication

**EP 2777890 A1 20140917 (EN)**

Application

**EP 14158710 A 20140311**

Priority

JP 2013049627 A 20130312

Abstract (en)

An electric power tool that performs simple authentication when starting operation. An electric drill driver includes a driver main body (20) and a battery pack (30). The battery pack (30) is attached in a removable manner to the driver main body (20). The driver main body (20) includes a motor (40), a controller (50), and a memory (60). The memory (60) stores a battery authentication program and includes a battery authentication information holding unit (61). The battery pack (30) includes a battery identification information holding unit (37). When a user pulls a trigger switch on the driver main body (20), the controller (50) performs a battery identification information acquisition step, a battery authentication step, and a motor control step in accordance with a battery authentication program.

IPC 8 full level

**B25F 5/00** (2006.01)

CPC (source: EP)

**B25F 5/00** (2013.01)

Citation (applicant)

JP 4678199 B2 20110427

Citation (search report)

- [X1] EP 1690648 A2 20060816 - MATSUSHITA ELECTRIC WORKS LTD [JP]
- [X1] WO 2012061673 A2 20120510 - INGERSOLL RAND CO [US], et al
- [X1] US 2012235628 A1 20120920 - OKABAYASHI HISAKAZU [JP], et al
- [A] WO 2006104929 A2 20061005 - BLACK & DECKER INC [US], et al

Cited by

CN114552302A; EP4312447A1; US10263543B2; WO2021148123A1; US11569765B2

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 2777890 A1 20140917; EP 2777890 B1 20160601**; CN 104044121 A 20140917; CN 104044121 B 20170412; JP 2014172151 A 20140922; JP 6074708 B2 20170208

DOCDB simple family (application)

**EP 14158710 A 20140311**; CN 201410088738 A 20140311; JP 2013049627 A 20130312