

Title (en)
ROTARY HAMMER

Title (de)
BOHRHAMMER

Title (fr)
MARTEAU ROTATIF

Publication
EP 3812097 A1 20210428 (EN)

Application
EP 20202562 A 20201019

Priority
JP 2019192325 A 20191021

Abstract (en)
A rotary hammer (101) includes a spindle, a motor, a first intermediate shaft (41), a striking mechanism (6), a second intermediate shaft (42) and a rotation-transmitting mechanism (7). The motor shaft extends in a direction intersecting a driving axis. The first intermediate shaft (41) extends in parallel to the driving axis. The striking mechanism (6) converts rotation of the first intermediate shaft (41) into linear motion and linearly drives a tool accessory along the driving axis. The rotation-transmitting mechanism (7) transmits rotation of the second intermediate shaft (42) to the spindle and rotationally drives the tool accessory around the driving axis. The motor shaft rotates the first intermediate shaft (41) via a driving bevel gear and a driven bevel gear (414). The first intermediate shaft (41) rotates the second intermediate shaft (42) via a driving gear (415) and a driven gear (424).

IPC 8 full level
B25D 16/00 (2006.01)

CPC (source: CN EP)
B25D 16/006 (2013.01 - EP); **B25D 17/00** (2013.01 - CN); **B25D 17/08** (2013.01 - CN); **B25D 2211/003** (2013.01 - EP); **B25D 2211/061** (2013.01 - EP); **B25D 2216/0015** (2013.01 - EP); **B25D 2216/0023** (2013.01 - EP); **B25D 2216/0038** (2013.01 - EP); **B25D 2250/245** (2013.01 - EP)

Citation (applicant)
• EP 2700477 A1 20140226 - METABOWERKE GMBH [DE]
• JP 2016000447 A 20160107 - MAKITA CORP

Citation (search report)
[XAI] GB 2160810 A 19860102 - BOSCH GMBH ROBERT & EP 3456479 A1 20190320 - METABOWERKE GMBH [DE]

Cited by
US2022395971A1

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 3812097 A1 20210428; **EP 3812097 B1 20240117**; CN 112757231 A 20210507; CN 112757231 B 20240607; JP 2021065958 A 20210430; JP 7465647 B2 20240411; RU 2020134129 A 20220419

DOCDB simple family (application)
EP 20202562 A 20201019; CN 202010648056 A 20200707; JP 2019192325 A 20191021; RU 2020134129 A 20201019