

Title (en)
IMPACT ROTARY TOOL

Title (de)
SCHLAGDREHWERKZEUG

Title (fr)
OUTIL ROTATIF À IMPACT

Publication
EP 4190494 A4 20231227 (EN)

Application
EP 21850550 A 20210624

Priority
• JP 2020131102 A 20200731
• JP 2021023979 W 20210624

Abstract (en)
[origin: EP4190494A1] An object of the present disclosure is to contribute to reducing the dimension of a tool along the axis of a drive shaft thereof. An impact rotary tool (1) includes a drive shaft (4), a speed reducer mechanism (5), an output shaft (13), a hammer (11), a spring (12), and a bearing member (6). The speed reducer mechanism (5) transmits rotational force of a shaft of a motor (31) to the drive shaft (4). The output shaft (13) receives rotational force from the drive shaft (4) and transmits the rotational force to a tip tool (B1). The hammer (11) is supported rotatably by the drive shaft (4) and strikes the output shaft (13). The spring (12) biases the hammer (11) toward the output shaft (13). The bearing member (6) supports the drive shaft (4) rotatably. The bearing member (6) is disposed closer to the output shaft (13) than the speed reducer mechanism (5) is along an axis (A1) of the drive shaft (4).

IPC 8 full level
B25B 21/02 (2006.01)

CPC (source: EP)
B25B 21/026 (2013.01)

Citation (search report)
• [XAI] US 2014367132 A1 20141218 - TANAKA NAOTAKE [JP], et al
• [XA] US 2010224033 A1 20100909 - YEOH SIM TEIK [MY], et al
• [XI] US 2013306341 A1 20131121 - RUDOLPH SCOTT M [US], et al
• [XA] JP H0549267 U 19930629
• [XA] US 2015364972 A1 20151217 - ITO YOSHIHIRO [JP]
• [XA] US 2019160636 A1 20190530 - HIRABAYASHI TOKUO [JP], et al
• See also references of WO 2022024611A1

Designated contracting state (EPC)
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