

Title (en)
HAND-HELD POWER TOOL

Title (de)
HANDWERKZEUGMASCHINE

Title (fr)
MACHINE-OUTIL PORTATIVE

Publication
EP 3638457 B1 20240110 (DE)

Application
EP 18729382 A 20180601

Priority
• DE 102017209829 A 20170612
• EP 2018064459 W 20180601

Abstract (en)
[origin: WO2018228829A1] The invention relates to a system comprising a first hand-held power tool (10) and a second hand-held power tool, each having a percussion mechanism (36), a motor (26), and a transmission (28), which comprises the striking mechanism and is designed to transfer a driving motion of the motor to an insert tool (30) held in a tool holder (12), each transmission having a guide tube (50) which is identical in some regions along a working axis (58), in which guide tube a striker (44) is mounted for axial movement, the guide tube being rotatably coupled to the motor by means of a first transmission unit (32) and the striker being drivable in a linearly oscillating manner by means of a piston (52) of a second transmission unit (34), a ratio between a diameter (14) of the tool holder and a diameter of the guide tube being 1.8 times greater in the first hand-held power tool than in the second hand-held power tool. An individual amount of striking energy of the second hand-held power tool is mechanically reduced in comparison with an individual amount of striking energy of the first hand-held power tool.

IPC 8 full level
B25F 5/00 (2006.01); **B25D 16/00** (2006.01)

CPC (source: EP US)
B25D 11/005 (2013.01 - EP US); **B25D 11/125** (2013.01 - EP); **B25D 16/006** (2013.01 - EP); **B25D 17/043** (2013.01 - EP US); **B25D 17/084** (2013.01 - EP US); **B25F 5/001** (2013.01 - EP); **B25D 11/125** (2013.01 - US); **B25D 16/006** (2013.01 - US); **B25D 2211/003** (2013.01 - EP); **B25D 2216/0084** (2013.01 - US); **B25D 2217/0019** (2013.01 - EP US); **B25D 2250/131** (2013.01 - EP US); **B25D 2250/165** (2013.01 - EP US); **B25D 2250/275** (2013.01 - EP US)

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)
DE 102017209829 A1 20181213; CN 110785264 A 20200211; CN 110785264 B 20230519; EP 3638457 A1 20200422; EP 3638457 B1 20240110; US 11279016 B2 20220322; US 2021170560 A1 20210610; WO 2018228829 A1 20181220

DOCDB simple family (application)
DE 102017209829 A 20170612; CN 201880038954 A 20180601; EP 18729382 A 20180601; EP 2018064459 W 20180601; US 201816613789 A 20180601