

Title (en)

ELECTROPNEUMATIC PERCUSSION MECHANISM

Title (de)

ELEKTROPNEUMATISCHES SCHLAGWERK

Title (fr)

MÉCANISME DE PERCUSSION ÉLECTROPNEUMATIQUE

Publication

EP 4139592 A1 20230301 (DE)

Application

EP 21717073 A 20210407

Priority

- EP 20170526 A 20200421
- EP 2021059072 W 20210407

Abstract (en)

[origin: WO2021213804A1] An electropneumatic percussion mechanism for an electric hand-held power tool, in particular a hammer drill and/or chisel hammer, wherein the percussion mechanism has a mechanism housing, a guide tube which is arranged at least in sections in the mechanism housing, an exciter piston which can be moved in the guide tube, a connecting rod which is coupled to the exciter piston, and an eccentric gear which is configured as an externally toothed gearwheel, is firstly coupled to the connecting rod and is secondly mounted such that it can be rotated about a rotational axis with regard to the mechanism housing, and an axial gap, preferably for optionally receiving at least one part of a lubricating chamber dividing element, is provided between an eccentric-gear surface, which faces the connecting rod, and a connecting-rod surface, which faces the eccentric gear.

IPC 8 full level

F16J 15/56 (2006.01); **B25D 11/12** (2006.01)

CPC (source: EP US)

B25D 11/12 (2013.01 - EP US); **B25D 17/26** (2013.01 - EP US); **B25D 2217/0065** (2013.01 - EP US); **B25D 2250/121** (2013.01 - EP US); **B25D 2250/345** (2013.01 - EP US); **B25D 2250/365** (2013.01 - EP US)

Citation (search report)

See references of WO 2021213804A1

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

EP 3901498 A1 20211027; CN 115398130 A 20221125; EP 4139592 A1 20230301; US 2023150103 A1 20230518; WO 2021213804 A1 20211028

DOCDB simple family (application)

EP 20170526 A 20200421; CN 202180028684 A 20210407; EP 2021059072 W 20210407; EP 21717073 A 20210407; US 202117916928 A 20210407