

Title (en)

IMPACT TOOLS WITH RING GEAR ALIGNMENT FEATURES

Title (de)

SCHLAGWERKZEUGE MIT ZAHNKRANZAUSRICHTUNGSFUNKTIONEN

Title (fr)

OUTILS DE PERCUSSION AVEC FONCTIONNALITÉS D'ALIGNEMENT DE COURONNE DENTÉE

Publication

EP 3302881 A4 20190123 (EN)

Application

EP 16804550 A 20160603

Priority

- US 201562171741 P 20150605
- US 2016035797 W 20160603

Abstract (en)

[origin: EP3819083A1] A hand-held power tool is provided that includes a housing, a motive source, a front endbell, an output shaft, a front housing, and a gear set assembly. The output shaft protrudes from an output end at the front endbell of the housing. The output shaft is also functionally coupled to the motive source such that the output shaft rotates in response to activation of the motive source when the motive source is supplied with power. The gear set assembly is located in an interior space of the front housing, and is configured to transfer rotation from the motive source to an output spindle. The gear set assembly also includes a ring gear that surrounds a portion of the output shaft and abuts the front endbell of the housing. A set of piloting features is provided that is configured to prevent movement of the ring gear relative to the motive source and the front housing, or the front housing relative to the housing.

IPC 8 full level

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CPC (source: CN EP US)

B25B 21/00 (2013.01 - EP); **B25B 23/00** (2013.01 - EP); **B25F 5/001** (2013.01 - EP US); **B25F 5/02** (2013.01 - CN)

Citation (search report)

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Designated contracting state (EPC)

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EP 3819083 A1 20210512; **EP 3819083 B1 20230524**; CN 107614204 A 20180119; CN 107614204 B 20201106; CN 112276871 A 20210129; EP 3302881 A1 20180411; EP 3302881 A4 20190123; EP 3302881 B1 20200923

DOCDB simple family (application)

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