

Title (en)

IMPACT POWER TOOL

Title (de)

ELEKTRISCHES SCHLAGWERKZEUG

Title (fr)

OUTIL MOTORISÉ À IMPACT

Publication

**EP 4163058 A1 20230412 (EN)**

Application

**EP 22185059 A 20220714**

Priority

- US 202163222824 P 20210716
- US 202217811337 A 20220708

Abstract (en)

An impact power tool includes a transmission output shaft, a rotary impact assembly with a cam shaft, hammer, and anvil, and a tool output shaft rotatable with the anvil. A coupler removably couples the cam shaft to the transmission output shaft. When torque on the tool output shaft is less than or equal to a first threshold, the transmission output shaft, cam shaft, hammer, and anvil rotate together to transmit torque to the tool output shaft. When torque on the tool output shaft is above the first threshold, the hammer moves along the cam shaft away from the anvil by a first distance and applies rotary impacts to the anvil. When the hammer moves along the cam shaft away from the anvil by a second distance greater than the first distance, the coupler decouples the transmission output shaft from the cam shaft, interrupting torque transmission to the tool output shaft.

IPC 8 full level

**B25B 21/02** (2006.01)

CPC (source: EP)

**B25B 21/026** (2013.01); **B25B 23/1405** (2013.01)

Citation (search report)

- [XA] EP 2743034 A2 20140618 - INGERSOLL RAND CO [US]
- [XA] US 2020198100 A1 20200625 - SCHNEIDER JACOB P [US], et al

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)

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