

Title (en)

POWER TOOL FOR GENERATING AN INSTANTANEOUS TORQUE

Title (de)

ELEKTROWERKZEUG ZUR ERZEUGUNG EINES UNMITTELBAREN DREHMOMENTS

Title (fr)

OUTIL ÉLECTRIQUE DESTINÉ À GÉNÉRER UN COUPLE INSTANTANÉ

Publication

**EP 4021683 B1 20231220 (EN)**

Application

**EP 19942829 A 20190827**

Priority

CN 2019102722 W 20190827

Abstract (en)

[origin: WO2021035512A1] A power tool (10) including a transmission mechanism (12), an output shaft (14) driven by the transmission mechanism (12), and a hydraulic unit (16) filled with a working fluid. The hydraulic unit (16) is disposed coaxially with the output shaft (14), and defines a rotatively driving mechanism (18), a first fluid chamber (20), and a second fluid chamber (22). The first fluid chamber (20) is in intermittently fluid connection with the second fluid chamber (22) via a fluid channel (28). A relative rotation between the hydraulic unit (16) and the output shaft (14) causes the rotatively driving mechanism (18) to axially compress or expand a volume of the second fluid chamber (22) for raising or decreasing a fluid pressure of the second fluid chamber (22), generating a pressure difference between the first fluid chamber (20) and the second fluid chamber (22) to cause an instantaneous torque to the output shaft (14).

IPC 8 full level

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