

Title (en)

Hydraulically operated ratchet spanner with a double-acting hydraulic cylinder/piston drive

Title (de)

Hydraulik-Ratschenschrauber mit einem doppeltwirkenden Hydraulik-Zylinder-Kolben-Antrieb

Title (fr)

Clé à cliquet hydraulique avec entraînement hydraulique à piston-cylindre à double effet

Publication

EP 1400313 A1 20040324 (DE)

Application

EP 02020916 A 20020919

Priority

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Abstract (en)

The ratchet screwdriver (12) is operated by the piston rod (15) of a double-action hydraulic piston-cylinder drive, the hydraulic oil supplied via a hydraulic pump unit (1) with cogwheel pump (20) and a radial piston pump (21) operated by a pump motor (4), the cogwheel pump providing a relatively large feed quantity for each motor rotation and the piston pump providing a relatively small feed quantity for each motor rotation. The working stroke and the return stroke of the piston rod are effected by reversing the rotation direction of the pump motor via a pump motor control (22), with automatic adjustment of the volumetric flow.

Abstract (de)

Die Erfindung betrifft einen Hydraulik-Ratschenschrauber mit einem doppeltwirkenden Hydraulik-Zylinder-Kolben-Antrieb mit einer Zahnradpumpe (20) und einer Kolbenpumpe (21). Erfindungsgemäß wird ein Arbeitshub und ein Rückhub über eine Drehrichtungsumkehr eines Pumpenmotors (4) gesteuert, wobei sich die erforderlichen Volumenströme selbsttätig über die eingesetzten Ventile ohne zusätzliche Ventilansteuerungen einstellen. <IMAGE>

IPC 1-7

B25B 21/00; **F15B 7/04**

IPC 8 full level

B25B 21/00 (2006.01); **F15B 7/00** (2006.01); **F15B 7/04** (2006.01)

CPC (source: EP US)

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Citation (search report)

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