

Title (en)
Hydraulic impact screwdriver especially for tightening threaded connection

Title (de)
Hydro-Impulsschrauber insbesondere zum Anziehen von Schraubverbindungen

Title (fr)
Visseuse à percussion hydraulique notamment pour le serrage de connections filetées

Publication
EP 0699508 B1 19980930 (DE)

Application
EP 95110755 A 19950710

Priority
DE 4429282 A 19940818

Abstract (en)
[origin: EP0699508A1] The switch-off unit has an adjusting element (23), standing and located in the motor shaft of the compressed air motor (4), and is in pressure conducting communication with the pressure building cylinder chamber of the impact mechanism. A torque related signal is transmitted to the switch-off unit across the adjusting element (23). With the reaching of a specified torque limit value, the pressure supply to the compressed air motor is interrupted. The adjusting element (23) reacts on a transverse beam (27), which is provided with at least one measurement value pick-up, designed pref. as a strain gauge strip (31). For determining a bending moment depending on a pulse pressure in the impact mechanism cylinder chamber (14), this bending moment is compared in a pref. electronic evaluation unit (40) with a specified torque limit value. When this is reached the switch-off unit is operated

IPC 1-7
B25B 23/145

IPC 8 full level
B25B 23/145 (2006.01)

CPC (source: EP US)
B25B 23/1453 (2013.01 - EP US); **B25B 23/1456** (2013.01 - EP US)

Cited by
CN105246653A

Designated contracting state (EPC)
DE ES FR GB IT SE

DOCDB simple family (publication)
DE 4429282 A1 19960222; CA 2156373 A1 19960219; CA 2156373 C 19980512; DE 59503770 D1 19981105; EP 0699508 A1 19960306; EP 0699508 B1 19980930; ES 2123866 T3 19990116; US 5567886 A 19961022

DOCDB simple family (application)
DE 4429282 A 19940818; CA 2156373 A 19950817; DE 59503770 T 19950710; EP 95110755 A 19950710; ES 95110755 T 19950710; US 51632795 A 19950817