

Title (en)

Method of automatically controlling electro-hydraulic handtools and assembly therefor

Title (de)

Verfahren zum automatischen Steuern von elektro-hydraulischen Handwerkzeugen und Anordnung hierfür

Title (fr)

Méthode de contrôle automatique d'un outil électro-hydraulique et arrangement approprié

Publication

**EP 1230998 A3 20070516 (DE)**

Application

**EP 02000190 A 20020110**

Priority

DE 10106360 A 20010212

Abstract (en)

[origin: DE10106360C1] The control method uses a microprocessor (15) for controlling a pump motor (12) for a hydraulic pump (5) supplying the drive cylinder of the electro-hydraulic handtool, with detection of the pump motor current and the current drop after opening an over-pressure valve (9) inserted in the hydraulic fluid return flow path. The pump motor current is disconnected after the motor current drops below a stored current value, via a load switch (14). An Independent claim for an automatic control device for an electro-hydraulic handtool is also included.

IPC 8 full level

**B21D 39/04** (2006.01); **B25B 27/10** (2006.01); **B25F 5/00** (2006.01)

CPC (source: EP)

**B25B 27/10** (2013.01)

Citation (search report)

- [DA] DE 19535691 C1 19970123 - ROTHENBERGER WERKZEUGE MASCH [DE]
- [DA] JP H11198058 A 19990727 - JAPAN STORAGE BATTERY CO LTD, et al
- [DA] DE 29502032 U1 19950323 - FOELL REMSWERK [DE]

Cited by

DE202009003197U1; DE202009003196U1; EP2228177A1; DE102011011742A1; CN105170812A; US11772349B2; DE202009015515U1; EP3650175A1; CN111140561A; EP3243604A1; EP2228178A2; WO2012110362A1; US9356540B2; EP2501523B1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

Designated extension state (EPC)

AL LT LV MK RO SI

DOCDB simple family (publication)

**EP 1230998 A2 20020814**; **EP 1230998 A3 20070516**; **EP 1230998 B1 20091021**; AT E446149 T1 20091115; DE 10106360 C1 20020711; DE 50213933 D1 20091203; DK 1230998 T3 20091221; ES 2333105 T3 20100217; PT 1230998 E 20091230

DOCDB simple family (application)

**EP 02000190 A 20020110**; AT 02000190 T 20020110; DE 10106360 A 20010212; DE 50213933 T 20020110; DK 02000190 T 20020110; ES 02000190 T 20020110; PT 02000190 T 20020110