

Title (en)
Fluid driven percussion device

Title (de)
Druckmittelbetriebene Schlagvorrichtung

Title (fr)
Dispositif à percussion actionné par fluide

Publication
EP 0934804 B1 20060111 (DE)

Application
EP 99101199 A 19990122

Priority
DE 19803449 A 19980130

Abstract (en)
[origin: US6959967B1] A fluid-powered impact vibrator (5), in particular a hydraulic hammer, comprising a fluid-powered percussion hammer (8) with a percussion piston (18) that is moved back and forth under the effect of a control means (10) and comprising a guide unit (7) on which the percussion hammer is supported, wherein the impact vibrator is additionally provided with a control valve, designed as a pressure monitor, for adaptation to the supplied input power. The control valve preferably is a pressure shut-off valve or a pressure-limiting valve (25) that is connected to the input pressure line (3) provided with the operating pressure, and automatically stops the percussion hammer (8) if the operating pressure resulting from the input power exceeds a specified maximum value. To stop the percussion hammer (8), either the pressure line (3) is blocked or the control means (10) is held in one of its end positions, i.e., the operating stroke or the return stroke positions. Moreover, the pressure shut-off valve or the pressure-limiting valve (25) preferably is a component of the guide unit, consisting of a support frame (7), or the percussion hammer (8) itself.

IPC 8 full level
B25D 9/26 (2006.01); **B25D 17/10** (2006.01); **E21B 1/26** (2006.01)

CPC (source: EP US)
B25D 9/26 (2013.01 - EP US)

Cited by
DE10013270A1; DE102004035306A1; CN105710845A; DE10123202A1; US6672403B2; WO2006007811A1

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AT CH DE ES FI FR GB IT LI NL SE

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