

Title (en)  
Hydraulically operated percussion mechanism.

Title (de)  
Hydraulisch betriebenes Schlagwerk.

Title (fr)  
Mécanisme à coup actionné hydrauliquement.

Publication  
**EP 0475171 B1 19951011 (DE)**

Application  
**EP 91114231 A 19910824**

Priority  
DE 4028595 A 19900908

Abstract (en)  
[origin: EP0475171A2] The object of the invention is to configure a percussion mechanism in such a way that the number of blows - and hence the return stroke and the individual impact energy of the percussion piston - is matched automatically to changing working conditions via an internal control system as a function of the contact pressure on the tool insertion end. <??>For this purpose the invention proposes to hold a contact-pressure control element (31) at least temporarily in contact with the insertion end (12) under the action of a resetting arrangement (31a, 22) acting in the striking direction (arrow 18) and, via this contact-pressure control element, to connect a control conduit (35) either to a pressure conduit (22) or to a balanced return conduit (25). <??>Via the control conduit, a switching element (30) can be actuated in such a way that the control device (4) alternately switching over the movement of the piston performs the reversing movement into the working-stroke position at an earlier or later point in time during the return stroke (arrow 19) of the percussion piston, thereby triggering the working stroke of the percussion piston in the striking direction. <IMAGE>

IPC 1-7  
**B25D 9/26**; **B25D 9/14**

IPC 8 full level  
**B25D 9/16** (2006.01); **B23B 45/16** (2006.01); **B25D 9/14** (2006.01); **B25D 9/26** (2006.01); **E21B 1/26** (2006.01)

CPC (source: EP US)  
**B25D 9/145** (2013.01 - EP US); **B25D 9/26** (2013.01 - EP US)

Cited by  
EP0648915A1

Designated contracting state (EPC)  
AT CH DE FR GB IT LI

DOCDB simple family (publication)  
**EP 0475171 A2 19920318**; **EP 0475171 A3 19920520**; **EP 0475171 B1 19951011**; AT E128895 T1 19951015; DE 4028595 A1 19920312; DE 4028595 C2 19930805; DE 59106668 D1 19951116; JP H05138549 A 19930601; US 5129466 A 19920714

DOCDB simple family (application)  
**EP 91114231 A 19910824**; AT 91114231 T 19910824; DE 4028595 A 19900908; DE 59106668 T 19910824; JP 22410291 A 19910904; US 75680291 A 19910909