

Title (en)  
Hydraulic impact apparatus.

Title (de)  
Hydraulischer Schlagapparat.

Title (fr)  
Appareil hydraulique à percussions.

Publication  
**EP 0516561 A1 19921202 (FR)**

Application  
**EP 92420165 A 19920520**

Priority  
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Abstract (en)  
Apparatus comprising a striking piston (1) driven hydraulically in a reciprocating fashion by a non-compressible fluid inside a cylinder, and coming to strike a tool (60), of the type in which the piston slides in a cylinder comprising two concentric piston bearing surfaces of different cross-sections, of which the one situated on the tool side has a smaller cross-section than the one further away from the tool, the piston and the cylinder delimiting two opposing chambers, an annular lower chamber (7) and an upper chamber of larger cross-section. According to the invention, the inside of the upper chamber (3) is permanently at a regulated pressure, of intermediate value between the inlet or high pressure, and the outlet or low pressure, and the annular lower chamber (7) is alternately connected, via a directional control valve (6) to the high-pressure feed circuit during the phase in which the piston (1) rises, and to the upper chamber (3) during the accelerated descent phase of the piston (1). <IMAGE>

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

IPC 8 full level  
**B25D 9/12** (2006.01); **B25D 9/14** (2006.01)

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

Citation (search report)

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