

Title (en)

TIGHTNESS SYSTEM BETWEEN THE HYDRAULIC AND EXTERNAL MEDIUM IN PERCUSSION DEVICES

Publication

EP 0071546 B1 19840808 (FR)

Application

EP 82420092 A 19820706

Priority

FR 8114304 A 19810717

Abstract (en)

[origin: ES8304467A1] A power cylinder of a hydraulic percussion implement, in whose bore a ram with an enlarged piston head is vertically reciprocable to strike a tool at the lower end of the bore, has a control chamber above the piston head alternately communicating with the high-pressure side and the low-pressure side of a source of hydraulic fluid, an annular recess in the bore being permanently or intermittently connected to high pressure acting upon the underside of the piston head. An annular drainage chamber formed by the bore at a lower level, disposed above an oil seal, collects liquid leaking down from that recess and returns it to the source. A pneumatic buffer lies in or communicates with that drainage chamber for absorbing hydraulic shocks generated when the ram strikes the tool.

IPC 1-7

B25D 9/04; **B25D 9/12**

IPC 8 full level

B25D 9/04 (2006.01); **B25D 9/12** (2006.01)

CPC (source: EP US)

B25D 9/04 (2013.01 - EP US); **B25D 9/12** (2013.01 - EP US)

Cited by

FR3057483A1; US6058632A; US11383368B2; CN102858498A; AU2011233729B2; EP2552651A4; WO2018069596A1; US9132540B2; WO2011123020A1

Designated contracting state (EPC)

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EP 0071546 A1 19830209; **EP 0071546 B1 19840808**; AT E8854 T1 19840815; AU 536362 B2 19840503; AU 8609682 A 19830728; CA 1200734 A 19860218; DE 3260542 D1 19840913; DE 71546 T1 19830623; ES 513726 A0 19830316; ES 8304467 A1 19830316; FI 822338 A0 19820630; FI 822338 L 19830118; FR 2509652 A1 19830121; FR 2509652 B1 19840420; JP S5871082 A 19830427; JP S599315 B2 19840301; NO 151110 B 19841105; NO 151110 C 19850213; NO 822475 L 19830118; US 4508017 A 19850402; ZA 825105 B 19830427

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