

Title (en)  
Pressurized-medium system and pressurized-medium component as well as a hydraulic splitter

Title (de)  
Druckmittelsystem und druckmittelkomponent sowie hydraulischer Spalter

Title (fr)  
Système à fluide pressurisé et composant pour fluide pressurisé ainsi que fendeuse hydraulique

Publication  
**EP 2264322 A2 20101222 (EN)**

Application  
**EP 10165605 A 20100611**

Priority  
FI 20095655 A 20090611

Abstract (en)  
The invention relates to a pressurized-medium system, which includes a pressurized-medium source (15) and a double-acting actuating cylinder (14). The pressurized-medium system also includes a directional control valve (18) and pressurized-medium conductors (19). In addition, the pressurized-medium system includes a booster cylinder (21), which is fitted between the directional control valve (18) and the actuating cylinder (14), as well as a control element (37) fitted between the directional control valve (18) and the booster cylinder (21), for leading the pressurized-medium to the booster cylinder (21) and from there to the actuating cylinder (14). The pressurized-medium system further includes a rapid-travel valve (20), which is arranged between the directional control valve (18) and the actuating cylinder (14) in order to recirculate the pressurized medium from the return line (17) to the feed line (16) of the operating cylinder, in order to increase the work velocity of the actuating cylinder (14), in such a way that, together with the control element (37) and the booster cylinder (21), three velocity and power ranges (P1, P2, P3) are formed in the pressurized-medium system. The invention also relates to a pressurized-medium component and a hydraulic splitter.

IPC 8 full level  
**F15B 11/032** (2006.01); **B27L 7/00** (2006.01); **F15B 11/024** (2006.01)

CPC (source: EP FI)  
**B27L 7/00** (2013.01 - EP); **B27L 7/06** (2013.01 - FI); **F15B 3/00** (2013.01 - FI); **F15B 11/024** (2013.01 - EP); **F15B 11/0325** (2013.01 - EP); **F15B 2011/0243** (2013.01 - EP); **F15B 2211/216** (2013.01 - EP); **F15B 2211/3058** (2013.01 - EP); **F15B 2211/7055** (2013.01 - EP); **F15B 2211/775** (2013.01 - EP)

Citation (applicant)  
US 4659292 A 19870421 - WELLS DAVID L [US], et al

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Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)  
BA ME RS

DOCDB simple family (publication)  
**EP 2264322 A2 20101222**; **EP 2264322 A3 20131023**; **EP 2264322 A9 20110216**; **EP 2264322 B1 20170531**; FI 123755 B 20131031; FI 20095655 A0 20090611; FI 20095655 A 20101212; FI 9020 U1 20101221; FI U20100480 U0 20101111

DOCDB simple family (application)  
**EP 10165605 A 20100611**; FI 20095655 A 20090611; FI U20100480 U 20101111