

Title (en)

HYDRAULIC SYSTEM FOR EARTH-MOVING MACHINES, IN PARTICULAR FOR LOADERS, TRACTORS AND THE LIKE

Publication

EP 0388641 B1 19930428 (DE)

Application

EP 90103203 A 19900220

Priority

DE 3909205 A 19890321

Abstract (en)

[origin: EP0388641A2] A hydraulic system for earth-moving machines, in particular for loaders, tractors and the like, is provided with an implement, in particular a loading shovel, which can be actuated via hydraulic cylinders (3), a main line (1) being provided for the actuation of the hydraulic cylinders (3), which main line (1) leads from a pressure source via a control valve (2) to the hydraulic cylinders (3) and from which a connecting line (13) branches off downstream of the control valve (2), which connecting line (13) leads to at least one hydraulic reservoir (12) and in which a controllable shut-off valve (14) is arranged. A filling line (19, 20) is provided which bridges the shut-off valve (14) and connects the main line (1) to the hydraulic reservoir (12). A pressure-reducing valve (21) is arranged in the filling line (19, 20). <IMAGE>

IPC 1-7

E02F 9/22; F15B 1/02

IPC 8 full level

E02F 9/22 (2006.01); **F15B 1/02** (2006.01)

CPC (source: EP)

E02F 9/2207 (2013.01); **E02F 9/2217** (2013.01); **E02F 9/226** (2013.01); **F15B 1/021** (2013.01)

Cited by

FR2747447A1; EP1264989A1; DE10060430B4; FR2747448A1; US6279316B1; US7204086B2; WO9916981A1; WO9833989A1; US7089734B2; DE102021208932B3

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

EP 0388641 A2 19900926; EP 0388641 A3 19910605; EP 0388641 B1 19930428; AT E88773 T1 19930515; DE 3909205 C1 19900523; DE 59001284 D1 19930603; DK 0388641 T3 19930927; ES 2041061 T3 19931101

DOCDB simple family (application)

EP 90103203 A 19900220; AT 90103203 T 19900220; DE 3909205 A 19890321; DE 59001284 T 19900220; DK 90103203 T 19900220; ES 90103203 T 19900220