

Title (en)

HYDRAULIC SYSTEM FOR A MOBILE MACHINE SUCH AS A WHEEL LOADER

Title (de)

HYDRAULISCHE ANLAGE FÜR EIN MOBILES ARBEITSGERÄT, INSBESONDERE FÜR EINEN RADLADER

Title (fr)

SYSTEME HYDRAULIQUE POUR ENGIN DE CHANTIER MOBILE, NOTAMMENT UN CHARGEUR A ROUES

Publication

EP 0759109 A1 19970226 (DE)

Application

EP 95917954 A 19950425

Priority

- DE 4416228 A 19940507
- EP 9501556 W 19950425

Abstract (en)

[origin: US5802847A] PCT No. PCT/EP95/01556 Sec. 371 Date Nov. 1, 1996 Sec. 102(e) Date Nov. 1, 1996 PCT Filed May 25, 1995 PCT Pub. No. WO95/30800 PCT Pub. Date Nov. 16, 1995A hydraulic system for a mobile machine, in particular a wheel loader, has a longitudinal oscillation damping function. The hydraulic system has at least one hydraulic cylinder (13) with which a tool can be operated and whose inner space is divided by a piston (15) into two pressure chambers (17, 18); a stop valve (12) which connects one of the two pressure chambers (17, 18) to a hydraulic reservoir (42) which can be filled via a filling pipe; and a distributing or directional control valve (11) with a spool or slide valve (40) for the separate pressurization of the two pressure chambers (17, 18) in the hydraulic cylinder (13) and/or for connecting them to a tank (29). To facilitate low-cost and space-saving construction of a system of this type, the stop valve is incorporated in the distributing valve (11) in such a way that the hydraulic reservoir (42) and the first pressure chamber (17) of the hydraulic cylinder (13) can be connected to each other via the spool valve (40) of the distributing valve (11).

IPC 1-7

E02F 9/22

IPC 8 full level

E02F 9/22 (2006.01); **F15B 11/00** (2006.01)

CPC (source: EP KR US)

E02F 9/2207 (2013.01 - EP KR US); **E02F 9/2217** (2013.01 - EP KR US); **E02F 9/2267** (2013.01 - EP KR US); **E02F 9/2271** (2013.01 - EP US)

Citation (search report)

See references of WO 9530800A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

US 5802847 A 19980908; DE 4416228 A1 19951109; DE 59504825 D1 19990225; EP 0759109 A1 19970226; EP 0759109 B1 19990113; JP H09512869 A 19971222; KR 970702951 A 19970610; WO 9530800 A1 19951116

DOCDB simple family (application)

US 73736396 A 19961101; DE 4416228 A 19940507; DE 59504825 T 19950425; EP 9501556 W 19950425; EP 95917954 A 19950425; JP 52863595 A 19950425; KR 19960706284 A 19961107