

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

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Application

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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).

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