

Title (en)

DEVICE FOR DIGITAL HYDRAULIC PRESSURE TRANSFORMATION (DHPT)

Title (de)

VORRICHTUNG ZUR DIGITALEN, HYDRAULISCHEN DRUCKTRANSFORMATION

Title (fr)

DISPOSITIF DE TRANSFORMATION DE PRESSION HYDRAULIQUE EN MODE NUMERIQUE (DHPT)

Publication

EP 1042596 B1 20060118 (EN)

Application

EP 98962706 A 19981224

Priority

- NL 9800734 W 19981224
- NL 1007912 A 19971224
- NL 1008588 A 19980313

Abstract (en)

[origin: WO9934100A1] The object of the invention is to provide a device for digital hydraulic pressure transformation with low loss, intended for flow- and power control for hydraulic machines, particularly hydraulic cylinders, which via a switching device are connected to a pressure reservoir with constant high pressure. According to the invention an intermediate mass is present between the switching device and the hydraulic machine which mass is activated by the flowing medium, the intermediate mass being of such size that the average velocity of the flow in the pipe during the open period of the switching device is sufficiently low to bring the hydraulic medium into the hydraulic machine so slowly, that the pressure change at the location of the hydraulic machine is smaller than the pressure difference between the reservoir and the momentary pressure at the location of the hydraulic machine, as result of which a gradual stepwise rising or lowering of said pressure level is made possible.

IPC 8 full level

F02B 71/04 (2006.01); **F01L 25/06** (2006.01); **F02B 75/04** (2006.01); **F15B 21/047** (2019.01)

CPC (source: EP)

F01L 25/06 (2013.01); **F02B 71/045** (2013.01); **F02B 75/04** (2013.01); **F15B 21/047** (2013.01)

Designated contracting state (EPC)

AT CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)

WO 9934100 A1 19990708; AU 1787799 A 19990719; EP 1042596 A1 20001011; EP 1042596 B1 20060118

DOCDB simple family (application)

NL 9800734 W 19981224; AU 1787799 A 19981224; EP 98962706 A 19981224