

Title (en)

DISPLACEMENT CONTROLLING DEVICE FOR A VARIABLE DISPLACEMENT TYPE HYDRAULIC PUMP

Title (de)

REGELEINRICHTUNG FÜR EINE HYDRAULIKPUMPE MIT VARIABLER VERDRÄNGUNG

Title (fr)

DISPOSITIF DE COMMANDE DE CYLINDREE DESTINE A UNE POMPE HYDRAULIQUE DE TYPE CYLINDREE VARIABLE

Publication

**EP 0821167 A1 19980128 (EN)**

Application

**EP 96909349 A 19960411**

Priority

- JP 9601005 W 19960411
- JP 8669795 A 19950412
- JP 21473695 A 19950823

Abstract (en)

A displacement controlling device for a variable displacement type hydraulic pump comprising a cylinder (21) for varying the displacement of a variable displacement type hydraulic pump (2), a control valve (26) for controlling the supply and discharge of discharging pressure of the variable displacement type hydraulic pump to and from the cylinder, a fixed displacement type hydraulic pump (3) driven together with the variable displacement type hydraulic pump by the same engine (1), and a throttle valve (18) provided along a discharge line of the fixed displacement type hydraulic pump, wherein the control valve is changed over by virtue of comparison between a differential pressure between the discharge pressure and a loading pressure and a set differential pressure, which is a differential pressure across the throttle valve so as to control the displacement of the variable displacement type hydraulic pump via the cylinder, whereby the differential pressure is made to be a certain value that matches the set differential pressure. <IMAGE>

IPC 1-7

**F15B 11/00**; **F15B 11/02**

IPC 8 full level

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CPC (source: EP)

**F04B 49/08** (2013.01); **F15B 11/05** (2013.01); **F04B 2205/06** (2013.01); **F04B 2205/08** (2013.01); **F04B 2205/18** (2013.01); **F15B 2211/20523** (2013.01); **F15B 2211/20538** (2013.01); **F15B 2211/20553** (2013.01); **F15B 2211/20576** (2013.01); **F15B 2211/253** (2013.01); **F15B 2211/40507** (2013.01); **F15B 2211/50563** (2013.01); **F15B 2211/528** (2013.01); **F15B 2211/57** (2013.01); **F15B 2211/6057** (2013.01); **F15B 2211/7135** (2013.01)

Citation (third parties)

Third party :

- JP H0599126 A 19930420 - KOMATSU MFG CO LTD
- JP H05172107 A 19930709 - KOMATSU MFG CO LTD

Cited by

EP1106833A4; US11486277B2; WO2005038252A1

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