Title (en)

HYDRAULIC PRESSURE BOOSTING UNIT, IN PARTICULAR FOR A PRESS OPERATING ACCORDING TO THE HIGH INNER PRESSURE EXTRUSION PROCESS

Title (de)

HYDRAULISCHE DRUCKÜBERSETZEREINHEIT, INSBESONDERE FÜR EINE NACH DEM INNENHOCHDRUCKUMFORMVERFAHREN ARBEITENDE PRESSE

Title (fr)

UNITE HYDRAULIQUE MULTIPLICATRICE DE PRESSION, NOTAMMENT POUR UNE PRESSE FONCTIONNANT SELON LE PROCEDE D'EXTRUSION A HAUTE PRESSION INTERIEURE

Publication

**EP 0830221 B1 19990203 (DE)**

Application

**EP 96921949 A 19960607**

Priority

- DE 19521101 A 19950609
- EP 9602489 W 19960607

Abstract (en)

[origin: WO9641692A1] A hydraulic pressure boosting unit (11) is used in particular in a press operating according to the high inner pressure extrusion process. The hydraulic pressure boosting unit has a docking cylinder (10) with a docking piston that slides in a first cylinder chamber (15) and a docking piston rod (26) secured to the docking piston projects outwards through a housing head (20). The hydraulic pressure boosting unit has a pressure booster (11) with a primary piston (40) located in a second cylinder chamber (16) coaxial to the first cylinder chamber and separated from the first cylinder chamber by a housing bottom (17) and with a secondary piston (41) that plunges into a central axial bore (28) of the docking piston and docking piston rod. In order to generate high forces with the docking cylinder, only one side of the docking piston has a piston rod, namely the docking piston rod.

IPC 1-7

**B21D 26/02**; B30B 12/00; F15B 3/00

IPC 8 full level

**F15B 11/028** (2006.01); **B21D 26/02** (2011.01); **B21D 26/033** (2011.01); **B30B 12/00** (2006.01); **F15B 3/00** (2006.01)

CPC (source: EP)

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