

Title (en)  
Hydropneumatic pressure intensifier

Title (de)  
Hydropneumatischer Druckübersetzer

Title (fr)  
Multiplicateur de pression hydropneumatique

Publication  
**EP 0579037 B1 19970924 (DE)**

Application  
**EP 93110428 A 19930630**

Priority  
DE 4223411 A 19920702

Abstract (en)  
[origin: EP0579037A1] Hydropneumatic pressure intensifier with a storage piston (11) which is secured in position between storage oil and compressed air and through which in addition a plunger piston (21) passes centrally, annular relief grooves (38 and 42) being provided for the oil/air separation on the circumferential surface as well as in the wall of the central bore (41). The annular relief grooves (38 and 42) are connected to one another and are pressure-relieved via a vent bore (39) leading to the outside. <IMAGE>

IPC 1-7  
**F15B 3/00**; **F15B 11/06**

IPC 8 full level  
**F15B 3/00** (2006.01); **F15B 11/032** (2006.01); **F15B 11/06** (2006.01); **F15B 11/072** (2006.01)

CPC (source: EP US)  
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Cited by  
DE19720252A1; DE102004010438B3; US6502395B1; WO9513478A1; WO0039466A1

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