

Title (en)  
Fluid pressure actuator

Title (de)  
Druckmittelbetätigbarer Arbeitszylinder

Title (fr)  
Vérin à fluide sous pression

Publication  
**EP 0684391 B1 19991208 (DE)**

Application  
**EP 95105000 A 19950404**

Priority  
DE 4414485 A 19940426

Abstract (en)  
[origin: EP0684391A1] The piston is secured to a piston rod (15) and slides in the cylinder chamber between two end positions. It is bushed during its motion by a damping bush (22) on the piston rod, with the damping bush entering a through bore (19) for throttled outflow of the pressure medium to a cylinder connecting union. Thus the piston moves slowly to its end position. To the damper is allocated a non-return valve for unobstructed pressure application to the cylinder chamber. The damping bush is freely axially guided on the piston rod between two stops (23,24). One end (29) of the bush, at the stop (23) allocated to the through bore, forming a valve (31) with a non-return function.

IPC 1-7  
**F15B 15/22**

IPC 8 full level  
**F15B 15/22** (2006.01)

CPC (source: EP)  
**F15B 15/222** (2013.01)

Citation (examination)  
Firmenschrift 'Marrel Hydro Catalogue 11085F - 11/79', Seiten 1-7

Cited by  
EP0974769A3; EP1677010A1; DE19635876A1; DE19635876C2

Designated contracting state (EPC)  
DE FR IT SE

DOCDB simple family (publication)  
**DE 4414485 A1 19951102**; DE 59507364 D1 20000113; EP 0684391 A1 19951129; EP 0684391 B1 19991208

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**DE 4414485 A 19940426**; DE 59507364 T 19950404; EP 95105000 A 19950404