

Title (en)  
Fluid actuator

Title (de)  
Druckmittelbetätigbarer Arbeitszylinder

Title (fr)  
Vérin à fluide

Publication  
**EP 0837250 B1 20020213 (DE)**

Application  
**EP 97117301 A 19971007**

Priority  
DE 29618186 U 19961021

Abstract (en)  
[origin: EP0837250A2] A pressure medium flows from a cylinder chamber of the ram cylinder, defined by a piston, in a controlled way to a cylinder connection so as to cause the piston to move slowly to its limit position. A check valve allows unhindered application of pressure from the cylinder connection for rapid movement of the piston from its end position. Throttle grooves (30) form a route for pressure medium between the cylinder chamber and the cylinder connection (19), and in addition, a throttle area (38) is also included. Preferably, the throttle area is a fixed diaphragm (40) located in a damping sleeve (23) which is mounted on the piston rod.

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

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

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

Cited by  
CN103939420A; EP0974769A3; CN104895869A; DE19836422A1; DE19836422C2; US6481331B1

Designated contracting state (EPC)  
DE FR IT SE

DOCDB simple family (publication)  
**DE 29618186 U1 19980219**; DE 59706369 D1 20020321; EP 0837250 A2 19980422; EP 0837250 A3 19980520; EP 0837250 B1 20020213

DOCDB simple family (application)  
**DE 29618186 U 19961021**; DE 59706369 T 19971007; EP 97117301 A 19971007