

Title (en)  
Hydraulic cylinder.

Title (de)  
Hydraulikzylinder.

Title (fr)  
Vérin hydraulique.

Publication  
**EP 0588779 B1 19950517 (DE)**

Application  
**EP 93890157 A 19930819**

Priority  
AT 175992 A 19920902

Abstract (en)  
[origin: EP0588779A1] To connect the cylinder tube (1) of a hydraulic cylinder to the base (6) on the one side and the cover (8) on the other side, groove-shaped recesses (16, 17) are provided at the cover (8) and base (6). The ends (5, 7) of the cylinder tube (1) are pressed into the recesses (16, 17) while being permanently deformed. In order to enable higher operating pressures to be applied, a neck (26) is provided at the ends of the non-deformed cylinder tube (1) in the area (25) of the inner end of each holding area (18, 19) with respect to the longitudinal extent of the cylinder tube (1). In the deformed state of the cylinder tube (1), the neck (26) reaches over the associated inner edge (27) of the groove-shaped recesses (16, 17). <IMAGE>

IPC 1-7  
**F15B 15/14**

IPC 8 full level  
**F15B 15/14** (2006.01)

CPC (source: EP US)  
**F15B 15/1438** (2013.01 - EP US); **Y10T 29/4927** (2015.01 - EP US); **Y10T 29/49911** (2015.01 - EP US); **Y10T 29/4994** (2015.01 - EP US)

Cited by  
FR2790298A1; EP1128073A1

Designated contracting state (EPC)  
DE ES FR GB IT NL SE

DOCDB simple family (publication)  
**EP 0588779 A1 19940323; EP 0588779 B1 19950517**; AT 401677 B 19961125; AT A175992 A 19960315; DE 59300205 D1 19950622; ES 2072173 T3 19950701; FI 933820 A0 19930901; FI 933820 A 19940303; US 5375507 A 19941227

DOCDB simple family (application)  
**EP 93890157 A 19930819**; AT 175992 A 19920902; DE 59300205 T 19930819; ES 93890157 T 19930819; FI 933820 A 19930901; US 11489993 A 19930902