

Title (en)  
Hydraulic cylinder with position sensor.

Title (de)  
Hydraulikzylinder mit Stellungsfühler.

Title (fr)  
Vérin hydraulique avec capteur de position.

Publication  
**EP 0074266 A1 19830316 (EN)**

Application  
**EP 82304667 A 19820906**

Priority  
US 30033181 A 19810908

Abstract (en)  
A piston (16) and rod (18) slide in a double acting cylinder with closed end (12) from which extends a bar (60) having a T-shaped cross-section with a cross piece (64) and stiffening web (66), the edges of which are rounded to engage and slide on the wall of a bore (22) in the piston rod (18), thus supporting the bar in a rigid manner. The face (68) of the cross piece (64) supports a potentiometer track which co-operates with a wiper (118) carried by an insulating carrier (110) fitted into the bore (22). The T-shaped bar (60) partitions the bore (22) into three chambers (65, 67, 69) which are in communication at the distal end of the bar. The carrier (110) is shaped to close the chamber (65) containing the wiper so that there is no fluid flow past the wiper as the piston (16) moves.

IPC 1-7  
**F15B 15/20**

IPC 8 full level  
**F15B 15/14** (2006.01); **F15B 15/20** (2006.01); **F15B 15/28** (2006.01)

CPC (source: EP)  
**F15B 15/2853** (2013.01)

Citation (search report)  
• [AD] US 3726191 A 19730410 - JOHNSTON S, et al  
• [A] FR 1382342 A 19641218 - MITCHELL HYDRAULICS LTD  
• [A] US 3412391 A 19681119 - RICHARD WARD  
• [A] US 3175094 A 19650323 - FARLEY HOWARD G

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Designated contracting state (EPC)  
AT BE CH DE FR GB IT LI NL SE

DOCDB simple family (publication)  
**EP 0074266 A1 19830316; EP 0074266 B1 19860226**; AT E18286 T1 19860315; AU 549902 B2 19860220; AU 8745882 A 19830317; BR 8205185 A 19830816; CA 1180916 A 19850115; DE 3269407 D1 19860403; DE 74266 T1 19830804; DK 400982 A 19830309; ES 515508 A0 19840101; ES 8402054 A1 19840101; JP H0233883 B2 19900731; JP S5854208 A 19830331; MX 154307 A 19870630; ZA 826527 B 19840425

DOCDB simple family (application)  
**EP 82304667 A 19820906**; AT 82304667 T 19820906; AU 8745882 A 19820820; BR 8205185 A 19820903; CA 408261 A 19820728; DE 3269407 T 19820906; DE 82304667 T 19820906; DK 400982 A 19820908; ES 515508 A 19820906; JP 15165582 A 19820831; MX 19430082 A 19820907; ZA 826527 A 19820907