

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.

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IPC 8 full level
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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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