

Title (en)

SUPPORT CYLINDER FOR FRAGILE AND HEAVY STRUCTURES, SUCH AS TELESCOPE MIRRORS

Title (de)

VERSTELLBARE HALTERUNG FÜR SCHWERE UND EMPFINDLICHE KONSTRUKTIONEN WIE SPIEGELTELESKOP

Title (fr)

VERIN SUPPORT DE STRUCTURES LOURDES ET FRAGILES, TEL UN MIROIR DE TELESCOPE

Publication

EP 0761022 A1 19970312 (FR)

Application

EP 96909191 A 19960325

Priority

- FR 9600439 W 19960325
- FR 9503517 A 19950324

Abstract (en)

[origin: WO9630965A1] A dual action support cylinder placed between a support (2) and a load (1) for applying on said load a nominal force of about 400 to 3900 N for a low displacement of less than 1 cm, characterised in that it has a body (10) forming a vessel connected to said support (2) and closed on both sides by a cover (11, 12), said covers and body defining a housing with two chambers (32, 33), each sealed by a flexible membrane (36, 39). The two covers (11, 12) are connected to each other by connecting means (16) comprising ties (45) arranged through the body (10) and the covers (11, 12). The body (10) has a cylindrical flange (30, 31) placed on either side of a core member (50) and co-operating with a collar (37, 40) for gripping the inner edge of each membrane (36, 39), wherein the movement of the cylinder is guided by metallic membranes.

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H01Q 15/14; F15B 15/10

IPC 8 full level

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