

Title (en)

Hydraulic or pneumatic actuator of which the movable translation element is prevented from rotation about its longitudinal axis.

Title (de)

Hydraulische oder pneumatische Antriebseinheit, deren bewegliches Translationselement gegen Drehung um seine Längsachse gesichert ist.

Title (fr)

Vérin hydraulique ou pneumatique dont l'élément mobile en translation est immobilisé en rotation autour de son axe longitudinal.

Publication

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Application

EP 87402757 A 19871204

Priority

FR 8617089 A 19861205

Abstract (en)

1. Hydraulic or pneumatic jack of which the element movable in translation is immobilized in rotation about its longitudinal axis, said movable element comprising a control rod (6) which is guided through a first outermost closure element (2) of a cylinder (1) and which is integral with a piston (4) mounted for sliding in said cylinder the piston separating in said cylinder an annular chamber (12) obturated by the first closure element (2), from a filled chamber (13) obturated by a second closure element (3), which element is integral with a rigid longitudinal element (16) which extends into a conduit (19) defined by rod (6) and issues into the filled chamber (13), the rigid longitudinal element (16) having at least one guiding surface (20, 21) parallel to the rod axis and cooperating with at least one support element carried by said rod (6) and arranged so as to be in contact with the guiding surface or surfaces, characterized in that the guiding surface or surfaces (20, 21) of the rigid longitudinal element (16) cooperates with at least one an axi-symmetrical supporting element (22, 23) traversing the conduit (19) in a direction substantially perpendicular to the axis of the control rod (6) and carried by same in such a way as to be in linear contact with said surface or surfaces.

Abstract (fr)

Le vérin comporte un cylindre 1 faisant corps avec une pièce tubulaire 2 et un fond 3, cylindre dans lequel est monté coulissant un piston 4 attelé à une tige de commande 6 et séparant une chambre annulaire 12 d'une chambre pleine 13. Suivant l'invention, pour empêcher la rotation de l'équipage mobile 4, 6 autour de son axe, le fond 3 fait corps avec au moins une barre 16 présentant au moins une surface plane de guidage 20, 21, coopérant avec au moins un élément transversal d'appui 22, 23 fixé à la tige 6.

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- [AD] DE 1952677 A1 19710429 - BUCHMANN RUDOLF CH
- [A] FR 2016864 A6 19700515 - STEELWELD LTD

Cited by

CN104454756A; CN102927083A; GB2274323A; GB2274323B; FR2820089A1; FR2635361A1; EP0896159A3

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