

Title (en)
CLAMPING DEVICE AND REGULATING UNIT

Title (de)
KLEMMVORRICHTUNG UND STELLEINRICHTUNG

Title (fr)
DISPOSITIF DE SERRAGE ET ENSEMBLE DE REGLAGE

Publication
EP 1448900 B1 20050309 (DE)

Application
EP 02787823 A 20021126

Priority
• DE 10158844 A 20011127
• EP 0213304 W 20021126

Abstract (en)
[origin: WO03046389A1] The invention relates to a clamping device for a rod (3) which moves in an axial translatable or rotating manner. Said device comprises a housing (2), a clamping sleeve (4) which is axially fixed in said housing, a tensioning piston (5) which can be displaced in the housing embodied as a cylinder, and a spring device for pre-tensioning the piston (5) in the direction of the clamping sleeve (4) in the locking state. Said spring device is embodied as at least one helical plate spring (6, 6', 6'', 19) which, in the event of a fracture, preserves the holding force and the dynamic course of the same. In a first form of embodiment, the at least one helical plate spring (19) is coaxially arranged in relation to the rod (3) to be clamped. In a second form of embodiment, a plurality of helical plate springs (6, 6', 6'') are arranged on the circumference of the rod (3) in such a way that they are parallel to the axis thereof, for the distribution of a pre-tensioning force acting on the spring device.

IPC 1-7
F15B 15/26; F16B 1/02

IPC 8 full level
F15B 15/26 (2006.01); **F16B 1/02** (2006.01)

CPC (source: EP US)
F15B 15/262 (2013.01 - EP US)

Cited by
DE102008057052B4; DE102008057053B4; DE102008057052A1; DE102008057053A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)
WO 03046389 A1 20030605; AT E290653 T1 20050315; AU 2002352149 A1 20030610; CN 100366924 C 20080206; CN 1596344 A 20050316; DE 10158844 A1 20030612; DE 50202445 D1 20050414; EP 1448900 A1 20040825; EP 1448900 B1 20050309; ES 2237705 T3 20050801; PT 1448900 E 20050729; UA 74099 C2 20051017; US 2011107907 A1 20110512; US 8028615 B2 20111004

DOCDB simple family (application)
EP 0213304 W 20021126; AT 02787823 T 20021126; AU 2002352149 A 20021126; CN 02823576 A 20021126; DE 10158844 A 20011127; DE 50202445 T 20021126; EP 02787823 A 20021126; ES 02787823 T 20021126; PT 02787823 T 20021126; UA 20040503897 A 20021126; US 49681302 A 20021126