

Title (en)
Adjustment of force for clamping device.

Title (de)
Spannkrafteinstellvorrichtung für eine Spannvorrichtung.

Title (fr)
Adjustage de force pour dispositif de serrage.

Publication
EP 0509265 B1 19950524 (DE)

Application
EP 92104834 A 19920320

Priority
DE 4112547 A 19910417

Abstract (en)
[origin: US5192062A] The clamping force adjusting device for a clamp device comprises a hollow housing (1) supported on a movable clamping part of the same, through which housing passes a rotatable and slidable tension rod (5), whose first end can be coupled to a force amplifier and whose second end (5b) carries a tension sleeve (6) fixed thereon. The tension sleeve (6) is supported on Belleville springs (9) through a thrust bearing (8) and an intermediate sleeve (10), the Belleville springs being supported directly in the housing (1). An adjusting sleeve (13) screws into a fine thread (14) of the housing (1) and has at its end facing the Belleville springs (9) a radially inwardly directed first stop shoulder (16), which cooperates with a radially outwardly directed second stop shoulder (17) of the intermediate sleeve (10) and/or a spacer ring (18) bearing on the thrust bearing (8).

IPC 1-7
B25B 1/10; **B25B 1/24**; **B23Q 3/02**

IPC 8 full level
B23Q 3/06 (2006.01); **B25B 1/06** (2006.01); **B25B 1/10** (2006.01); **B25B 1/24** (2006.01)

CPC (source: EP KR US)
B25B 1/103 (2013.01 - EP US); **B25B 1/18** (2013.01 - KR); **B25B 1/24** (2013.01 - EP US)

Cited by
CN107297636A

Designated contracting state (EPC)
AT CH ES FR GB IT LI SE

DOCDB simple family (publication)
EP 0509265 A2 19921021; **EP 0509265 A3 19930310**; **EP 0509265 B1 19950524**; AT E122950 T1 19950615; DE 4112547 A1 19921022; DE 4112547 C2 19930204; JP 3200144 B2 20010820; JP H06262535 A 19940920; KR 100226647 B1 19991015; KR 920019487 A 19921119; US 5192062 A 19930309

DOCDB simple family (application)
EP 92104834 A 19920320; AT 92104834 T 19920320; DE 4112547 A 19910417; JP 8438992 A 19920407; KR 920006423 A 19920417; US 86962892 A 19920416