

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