

Title (en)
Tensioning device with reinforcement

Title (de)
Spannvorrichtung mit Kraftverstärkung

Title (fr)
Dispositif de serrage avec amplification de puissance

Publication
EP 2412478 A3 20140528 (DE)

Application
EP 11172310 A 20110701

Priority
DE 202010010867 U 20100730

Abstract (en)
[origin: EP2412478A2] The clamping device has a fixed clamping jaw (1), a movable clamping jaw (2), and a drive for adjusting the movable clamping jaw relative to the fixed clamping jaw. The drive has a threaded spindle (7) and a reinforcement mechanism (8) to strengthen the clamping force. The threaded spindle is formed as a telescopic shaft, where the reinforcement mechanism is formed to exert a pulling force on the movable clamping jaw.

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

CPC (source: EP)
B25B 1/103 (2013.01); **B25B 1/106** (2013.01); **B25B 1/2405** (2013.01)

Citation (search report)

- [A] DE 19615335 C1 19971002 - GRESSEL AG [CH]
- [A] US 5893551 A 19990413 - COUSINS JOSEPH RUSSELL [US], et al
- [A] DE 4127772 A1 19930225 - KESEL GEORG GMBH & CO KG [DE]
- [A] DE 4209699 A1 19930930 - GRESSEL AG AADORF [CH]
- [A] US 2320606 A 19430601 - JOHN JESIONOWSKI
- [A] FR 1459301 A 19660429

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CN110216607A

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
DE 202010010867 U1 20111102; EP 2412478 A2 20120201; EP 2412478 A3 20140528; EP 2412478 B1 20150909

DOCDB simple family (application)
DE 202010010867 U 20100730; EP 11172310 A 20110701