

Title (en)  
TENSIONING DEVICE

Title (de)  
SPANNVORRICHTUNG

Title (fr)  
DISPOSITIF DE TENSION

Publication  
**EP 3255002 A1 20171213 (EN)**

Application  
**EP 17174570 A 20170606**

Priority  
CN 201610394761 A 20160606

Abstract (en)  
The present disclosure provides a tensioning device for tensioning a wire (10). The tensioning device includes: a frame body (100); a slider (300) slidably mounted onto the frame body (100); a roller (400) rotatably mounted onto the slider (300) and configured to tension the wire (10) thereon; and a spring (600) compressed between the slider (300) and the frame body (100). The spring (600) pushes the slider (300) to move in a direction to tension the wire (10) to increase a tension force on the wire (10) when the tension force on the wire (10) is less than a predetermined minimum tension force; the slider (300) will move in a direction to loosen the wire (10) against the pushing of the spring (600) to reduce the tension force on the wire (10) when the tension force on the wire (10) is greater than a predetermined maximum tension force. Therefore, the tension force on the wire (10) can be controlled within a reasonable range, effectively avoiding the problem that the wire (10) cannot be transported result from the wire (10) slipping on the roller (400) due to a too small tension force or the wire (10) being pulled to be broken due to an excessive tension force, thereby ensuring a normal transportation of the wire (10).

IPC 8 full level  
**B65H 59/36** (2006.01)

CPC (source: CN EP)  
**B65H 59/10** (2013.01 - CN); **B65H 59/36** (2013.01 - EP); **B65H 2511/20** (2013.01 - CN); **B65H 2515/31** (2013.01 - CN); **B65H 2701/32** (2013.01 - CN); **B65H 2701/34** (2013.01 - CN)

Citation (search report)  
• [XYI] EP 0013510 A1 19800723 - DU PONT CANADA [CA]  
• [Y] EP 2143681 A1 20100113 - SAHM GEORG FA [DE]  
• [XI] EP 0128255 A1 19841219 - ROL GABRIEL

Cited by  
CN112520502A

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)  
**EP 3255002 A1 20171213**; **EP 3255002 B1 20210224**; CN 107458927 A 20171212

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**EP 17174570 A 20170606**; CN 201610394761 A 20160606