

Title (en)

Device for automatic wire tension adjustments during the various steps of winding in machines for winding electric coils

Title (de)

Vorrichtung für automatische Drahtspannungsanpassungen während verschiedener Stufen von Wickelmaschinen zum Wickeln von elektrischen Spulen

Title (fr)

Dispositif pour réglages automatiques de tension de fil pendant les différentes étapes d'enroulement dans les machines pour enrouler des bobines électriques

Publication

EP 2866236 A1 20150429 (EN)

Application

EP 14189753 A 20141021

Priority

IT MI20131761 A 20131022

Abstract (en)

A device for automatic wire tension adjustment during the various steps of winding in machines for winding electric coils, comprising a supporting structure (2) that supports a series of elements that define a path for the wire (3) to be fed to the coil being wound; along this path there are means (5) for detecting the tension of the wire (3) and a takeup arm (6) that can rotate about an axis (7) with respect to the supporting structure (2) due to the variations of the tension of the wire (3); the device further comprises, along the path for the wire (3), an element (4) for pushing and braking the wire (3) and means (8) for detecting the rotation of the takeup arm (6) about the axis (7) relative to the supporting structure (2) and the means (8) for detecting the rotation of the takeup arm (6) are connected functionally to the pushing and braking element (4) for an automatic adjustment of the degree of thrust or braking applied to the wire (3) as a function of the detected value of the rotation of the takeup arm (6) about the axis (7).

IPC 8 full level

B65H 59/38 (2006.01); **H01F 41/06** (2006.01)

CPC (source: EP)

B65H 59/18 (2013.01); **H01F 41/094** (2016.01)

Citation (search report)

- [XY] EP 0926090 A2 19990630 - NITTOKU ENG [JP]
- [XY] EP 2031610 A1 20090304 - NITTOKU ENG [JP]
- [YA] EP 0424770 A2 19910502 - MARSILLI & CO [IT]
- [A] EP 2617670 A2 20130724 - NITTOKU ENG [JP]

Cited by

JP2018177497A; EP3336864A1; IT201600127236A1; EP3651324B1

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

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