

Title (en)

TWISTING AND WINDING DEVICE FOR TWISTING AND WINDING A THREAD ON A SPINDLE

Title (de)

VERDREH- UND WICKELVORRICHTUNG ZUM VERDREHEN UND AUFWICKELN EINES FADENS AUF EINER SPINDEL

Title (fr)

DISPOSITIF DE TORSION ET D'ENROULEMENT POUR LA TORSION ET L'ENROULEMENT D'UN FIL SUR UNE BROCHE

Publication

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Application

EP 16736616 A 20160525

Priority

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- IB 2016053069 W 20160525

Abstract (en)

[origin: WO2016189480A1] Twisting and winding device (1) for twisting and winding a thread on a spindle comprising a twisting and winding unit (5), arranged for permitting twisting and winding of said thread around the spindle and comprising a sleeve (40) provided with a guiding element (43) for guiding the thread, said sleeve (40) being arranged for being rotated by the spindle through the thread, the twisting and winding device (1) further comprising an inner ring (30) fixed outside the sleeve (40), a positioning element (32) arranged for supporting a plurality of revolving bodies (33), and an outer ring (31), mounted concentrically outside the inner ring (30), said positioning element (32) being interposed between the inner ring (30) and the outer ring (31), said inner ring (30) and said outer ring (31) forming a rolling track for said plurality of revolving bodies (33); the twisting and winding device (1) further comprising an electronic control unit (4) arranged for varying a rotation speed of the sleeve (40), the electronic control unit (4) comprising a speed sensor (18), arranged for detecting an actual rotation speed of the sleeve (40), an electromagnet (9), arranged for interacting with the sleeve (40), and an electronic card (10) arranged for varying a supply current of the electromagnet (9) to exert a braking action on the sleeve (40), in order to vary the actual rotation speed of the sleeve (40), the electronic card (10) being set up to compare the value of the actual rotation speed detected by the speed sensor (18), with a reference value and varying the supply current on the basis of the result of said comparing.

IPC 8 full level

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