

Title (en)

AN IMPROVED DEVICE FOR CONTROLLING THE FEEDING OF AN ELASTIC TAPE IN SEWING MACHINES

Publication

EP 0337963 A3 19891115 (EN)

Application

EP 89830155 A 19890410

Priority

IT 2016088 A 19880411

Abstract (en)

[origin: EP0337963A2] This invention concerns an improved device for controlling the feeding of an elastic tape in sewing machines. It includes a tensioning roller (4) and a first pressing means (7) having inserted therebetween a tape (8) pulled by the sewing machine forwarding means (3), said roller (4) being connected to the shaft (5) of an electric motor (6) which is rotated according to the tension which is desired to be provided in the tape; a slackening roller (13) mounted between the tensioning roller (4) and the source of supply (10) of the elastic tape (8); a second means (15) adapted to press the tape (8) against the slackening roller (13); and a sensor (23) adapted to detect the tape position within the span between the tensioning roller (4) and the slackening roller (13), and being connected to a motor (28) which rotates the slackening roller (13) in either direction respectively withdrawing tape from said source (10) of supply or paying it out thereto in order to constantly maintain a slack tape loop within said span, whereby the tape is supplied tension-free to the tensioning roller.

IPC 1-7

D05B 35/06; **B65H 51/30**

IPC 8 full level

B65H 51/30 (2006.01); **D05B 35/06** (2006.01); **D05B 29/06** (2006.01)

CPC (source: EP)

B65H 51/30 (2013.01); **D05B 35/06** (2013.01); **B65H 2701/31** (2013.01); **D05B 29/06** (2013.01); **D05D 2207/06** (2013.01); **D05D 2303/04** (2013.01)

Citation (search report)

- [XD] US 3856224 A 19741224 - VAN DER AA H, et al
- [Y] FR 2320254 A1 19770304 - DONDI BENELLI DORE [IT]
- [X] US 4013027 A 19770322 - CASH DAVID R
- [X] GB 1374785 A 19741120 - SCIENT DE LINDUSTRIE TEXTILE B
- [A] DE 3007652 A1 19810910 - UNION SPECIAL GMBH [DE]
- [A] DE 3241362 A1 19840510 - OTT GMBH A [DE]

Designated contracting state (EPC)

BE CH DE FR GB LI NL

DOCDB simple family (publication)

EP 0337963 A2 19891018; **EP 0337963 A3 19891115**; **EP 0337963 B1 19920722**; DE 68902167 D1 19920827; DE 68902167 T2 19921217; IT 1217397 B 19900322; IT 8820160 A0 19880411; PT 90236 A 19891110; PT 90236 B 19940331

DOCDB simple family (application)

EP 89830155 A 19890410; DE 68902167 T 19890410; IT 2016088 A 19880411; PT 9023689 A 19890410