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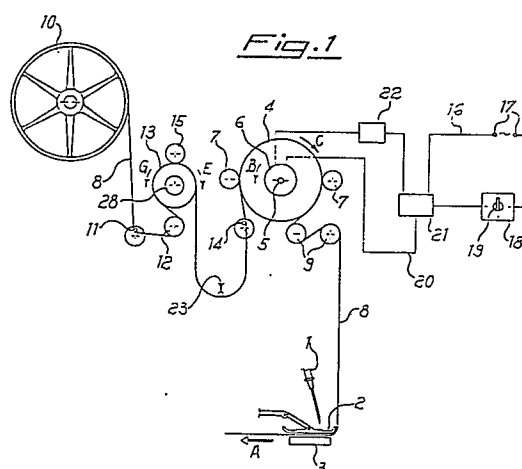
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54 **An improved device for controlling the feeding of an elastic tape in sewing machines.**

57 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.





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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
X, D	US-A-3856224 (VAN DER AA ET AL.) * column 5, line 8 - line 33; figures 1, 2 *	1	D05B35/06 B65H51/30
Y		2	
A		4	
Y	FR-A-2320254 (DONDI BENELLI) * the whole document *	2	
X	US-A-4013027 (CASH) * column 4, line 14 - line 35; figure 1 *	1	
X	GB-A-1374785 (CENTRE SCIENTIFIQUE DE L'INDUSTRIE TEXTILE BELGECENTEXBEL) * page 1, line 13 - line 31 *	1	
A	* page 2, line 80 - line 102; figure 1 *	3	
A	DE-A-3007652 (UNION SPECIAL) * the whole document *	1	
A	DE-A-3241362 (A.OTT) * figure 1 *	1, 2	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			D05B B65H
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 30 AUGUST 1989	Examiner RAYBOULD B. D. J.
<b>CATEGORY OF CITED DOCUMENTS</b> X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			