

EUROPEAN PATENT APPLICATION

Application number: 85305973.1

Int. Cl.⁴: **B 65 H 59/38**
B 65 H 54/28

Date of filing: 22.08.85

Priority: 23.08.84 GB 8421448

Date of publication of application:
02.04.86 Bulletin 86/14

Date of deferred publication of search report: 29.04.87

Designated Contracting States:
BE DE FR GB IT

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Method and apparatus for coiling pile weatherstrip on a reel.

Two methods and apparatus for coiling pile weatherstrip (9) on a reel (1 or 2) are disclosed, so that the weatherstrip is fed to the reel under little or no tension, so that the pile is not crushed when on the reel. The weatherstrip (9) is advanced either by means of a pair of nip rollers (31,33) or by a smooth surfaced capstan (53) around which there are several turns of weatherstrip, and it is then placed on the rotating reel (1 or 2) by a head (10) on the end of an arm which can move in two different planes to place the weatherstrip in parallel adjacent

rows and concentric layers on the reel (1 or 2). The capstan is rotated at a constant speed which is such that weatherstrip is fed therefrom at a rate which is never less than the speed with which the weatherstrip passing through the head (10) is placed on the reel (2), whereas the nip rollers (31,33) have their speed controlled by a tension sensing control roller (37) mounted on an arm (41) connected to a rotary roller speed control device (43). This ensures that the weatherstrip is never placed on the reel (1 or 2) under tension.

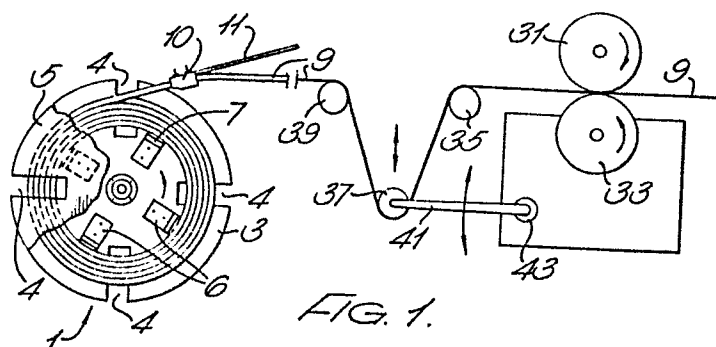


FIG. 1.



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	DE-C- 651 511 (HACKETHAL-DRAHT- UND KABEL-WERKE A.G.) * Whole document *	1,6	B 65 H 54/28 B 65 H 59/38
Y	---	3	
Y	US-A-3 289 959 (SCHER, J.W.) * Figures 1,2; column 1, lines 42-65; claim 1 *	3	
A	---	1,6	
A	DE-A-1 588 153 (ETS. BRISSONNEAU ET LOTZ) * Figure 1; pages 4,5 *	2,10	
			TECHNICAL FIELDS SEARCHED (Int. Cl. 4)
A	BE-A- 526 576 (MASCHINENFABRIK HERBORN, BERKENHOFF & DRREBES A.G.) * Whole document *	2,10	B 65 H 54/00 B 65 H 59/00
A	EP-A-0 147 619 (OY NOKIA AB) * Figures; claim 1 *	1,4,6, 9	
A	US-A-4 232 838 (BRAVIN, B.) * Figure 1; column 6, line 64 - column 7, line 7 *	1,3,6	
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The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 15-01-1987	Examiner RAYBOULD B.D.J.

CATEGORY OF CITED DOCUMENTS

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
A	US-A-4 413 792 (O'CONNOR, C.) * Figures 1,4; claim 1 *	1,6	
A	--- US-A-4 250 130 (LA SPISA et al.) * Figure 1 *	1,3,6	
A	--- US-A-1 460 595 (MARSHALL, W.R.) * Whole document *	8	
A	--- GB-A-2 053 848 (ESSEBI DI BORRI E SORMANI) * Figures 1-9 *	8,12,13	
A	--- US-A-3 997 122 (HELFAND et al.) * Figures 17-19 *	1,6	
			TECHNICAL FIELDS SEARCHED (Int. Cl. 4)
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