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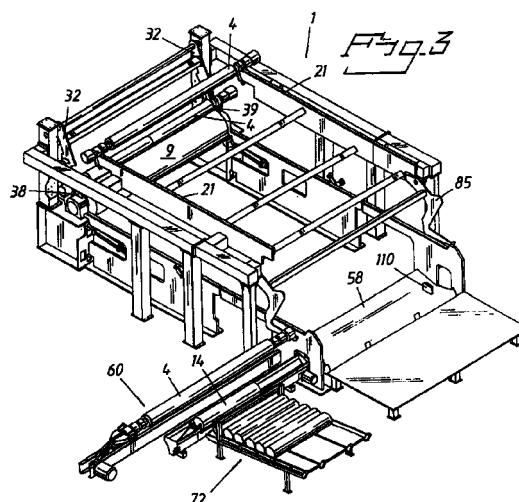
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(54) **Reel-up**

(57) A reel-up in a paper machine in which the web is reeled onto reeling drums (4) provided with cores, said reel-up having an upper pair of parallel rails (21) extending from the downstream end of the reel-up to its upstream end to support a stock (15) of reeling drums provided with cores, and a handling station (54) for handling finished reels of paper (3), reeling drums (4) and cores (14), said handling station having a vertically movable lifting table (58) for receipt of a finished reel of paper, a device (60) for moving a reeling drum out from a reel of paper on the lifting table and for subsequently inserting the reeling drum into at least one core (14) on the lifting table, and a device for feeding cores (14) out onto the lifting table. According to the invention the handling station (54) is provided with a lifting device (84) comprising two lifting elements (85) arranged to be brought into engagement with a reeling drum provided with core(s) and situated on the lifting table, and to lift this and deliver it to the upper pair of rails. Actuators (90) are connected to the lifting elements to move them from the lifting table to the delivery point at the upper pair of rails.



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EUROPEAN SEARCH REPORT

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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.6)
A	US 4390138 A (G. ROHDE ET AL), 28 June 1983 (28.06.83) * figure 1, abstract *	1	B65H 19/30
	--		
A	US 4428543 A (F. KUHN), 31 January 1984 (31.01.84) * claim 1 *	1	
	--		
A	GB 2188619 A (OY TAMPELLA AB), 7 October 1987 (07.10.87)		
	--		
A	EP 0244059 A2 (A. AHLSTRÖM CORPORATION), 4 November 1987 (04.11.87)		
	--		TECHNICAL FIELDS SEARCHED (Int. Cl.6)
A	WO 9747547 A1 (BELOIT TECHNOLOGIES, INC.), 18 December 1997 (18.12.97)		B65H
	--		
A	US 3131880 A (C.W. MILLER ET AL), 5 May 1964 (05.05.64)		
	--		
A	US 4682929 A (H. KATAOKA), 28 July 1987 (28.07.87)		

The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
STOCKHOLM		22 June 1999	FALK CHRISTER
CATEGORY OF CITED DOCUMENTS 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			

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ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO. EP 99 10 4106.2

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on 01/06/99
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Patent document cited in search report			Publication date	Patent family member(s)		Publication date
US	4390138	A	28/06/83	AT	53981 A	15/09/84
				AT	377740 B	25/04/85
				DE	3015547 A,C	29/10/81
				FR	2481242 A,B	30/10/81
				JP	56165650 A	19/12/81
				YU	81681 A	31/10/83

US	4428543	A	31/01/84	AT	375618 B	27/08/84
				AT	378881 A	15/01/84
				DE	3040398 A,C	29/04/82
				JP	57102456 A	25/06/82

GB	2188619	A	07/10/87	CA	1276923 A	27/11/90
				DE	3710959 A,C	08/10/87
				FI	73945 B,C	31/08/87
				FI	861436 D	00/00/00
				SE	464190 B,C	18/03/91
				SE	8700635 A	04/10/87
				US	4768730 A	06/09/88

EP	0244059	A2	04/11/87	FI	75542 B,C	31/03/88
				FI	860834 A	28/08/87
				JP	62205955 A	10/09/87
				US	4778122 A	18/10/88

WO	9747547	A1	18/12/97	AU	3258697 A	07/01/98
				DE	29610198 U	16/10/97
				EP	0912436 A	06/05/99
				DE	29613556 U	11/12/97

US	3131880	A	05/05/64	NONE		

US	4682929	A	28/07/87	NONE		
