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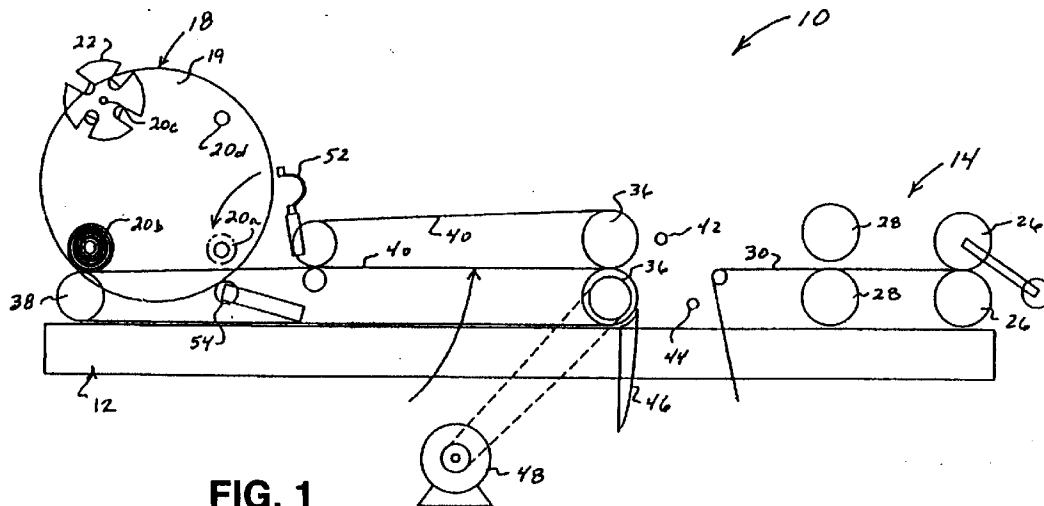
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(54) **Roll-forming apparatus for continuous or interleaved webs**

(57) A roll-forming apparatus (10) is disclosed which forms individual rolls of material from continuous or interleaved webs. The apparatus includes a conveyor (16) which directs each web of material to an associated intermittently indexed turret assembly (18). The turret assembly includes a plurality of rotatable spindles (20) thereon for respective formation of rolls of material from the individual webs. The apparatus includes various drive arrangements so that the surface speed of each

spindle is matched to the speed of the apparatus conveyor during transfer of each web to a respective one of the spindles. Separate drive systems are preferably provided for effecting driven rotation of each spindle during winding of the rolls, and for effecting intermittent, indexed movement of the turret assembly. An additional drive mechanism desirably effects reverse rotation of each spindle to facilitate removal of the completed roll therefrom.



**FIG. 1**



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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)
X	US 5 362 013 A (GIETMAN JR PETER J ET AL) 8 November 1994	1,5,6	B65H18/10 B65H20/06 B65H19/22
Y	* column 6, line 40 - column 7, line 13; figures *	2,8-12	
Y	GB 2 242 677 A (FMC CORP) 9 October 1991 * page 4, line 3 - line 11 *	2,8-12	
A	US 3 116 890 A (PAPER CONVERTING MACHINE CO. INC.) 7 January 1964 * column 7, line 12 - line 20 * * column 8, line 49 - column 9, line 67 *	1-3,5-8,12	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			B65H
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 17 June 1998	Examiner Haaken, W
CATEGORY OF CITED DOCUMENTS		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	
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			

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