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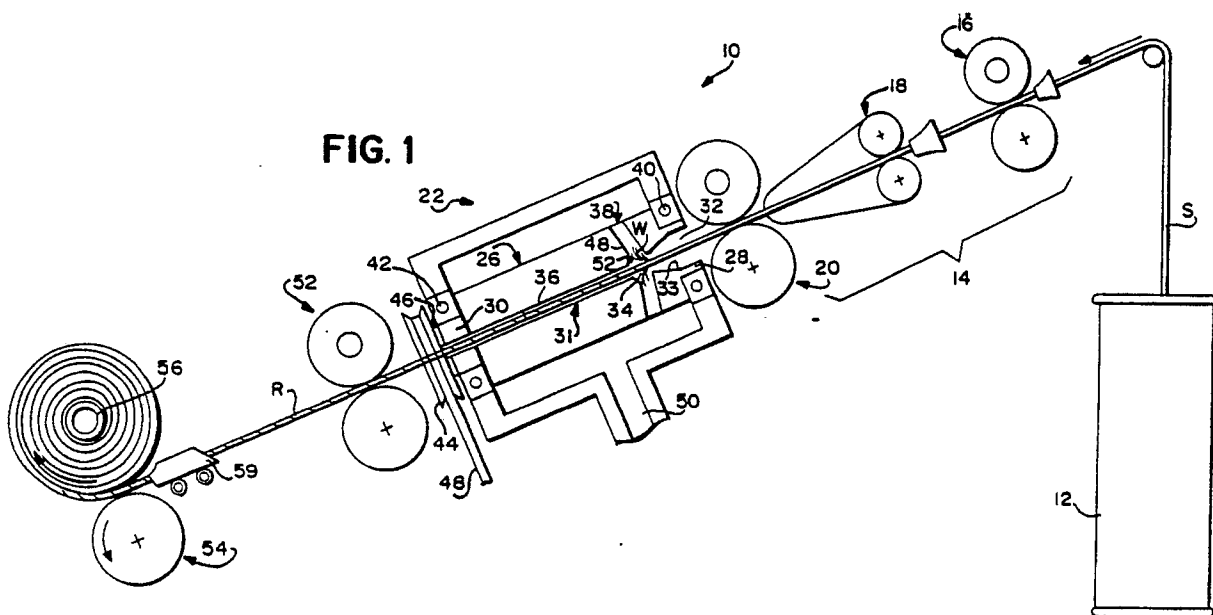
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54 **Manufacture of roving.**

57 A process and apparatus for the production of roving uses vacuum spinning techniques. Specifically, a fibre mass, or sliver (S), is drafted through a drafting zone (14) and passed into a hollow, rotatable shaft (26), the shaft having a central through passageway (31) and a plurality of radially oriented orifices (38). The shaft (26) is mounted in a housing

(24) to which a vacuum is applied as the fibre mass passes through the rotating shaft. Trailing free ends of a minor portion of the fibres are pulled into the orifices (38) and, as the linear movement of the fibres continues, are pulled back out of the orifices and are wrapped about the remaining core fibres to form a roving.

FIG. 1



EP 0 375 242 A3



EP 89 31 2927

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.5)
X,D	EP-A-0184277 (BURLINGTON INDUSTRIES) * page 11, line 28 - page 13, line 19; figures 1, 8a, 10 *	1, 2, 5, 11	D01H1/115
Y,D	---	8, 9	
Y	EP-A-0222981 (SCHUBERT & SALZER) * column 4, lines 42 - 58 *	8, 9	
A	* column 11, lines 24 - 25 * * column 11, line 40 * * figures 1, 2 *	1, 2, 11	
A	EP-A-0121602 (RIETER) * claim 1; figure 1 *	1, 2, 11	
A	EP-A-0099726 (KABUSHIKI KAISHA TOYODA JIDOSHOKKI SEISAKUSHO) -----		
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			D01H
Place of search THE HAGUE		Date of completion of the search 26 SEPTEMBER 1990	Examiner RAYBOULD B.D.J.
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 F : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application I : document cited for other reasons ----- & : member of the same patent family, corresponding document			