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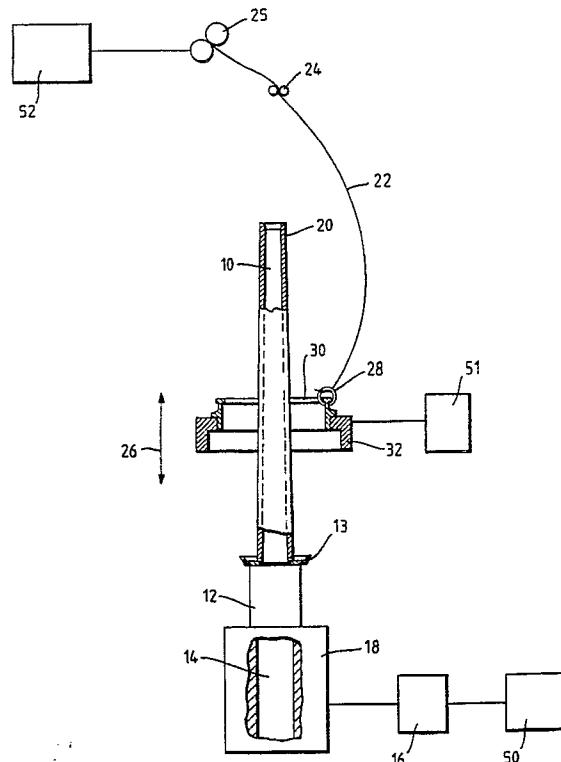
⑳ Applicant: HOLLINGSWORTH (U.K.) LIMITED  
Scaitcliffe Street P.O. Box 55  
Accrington Lancashire BB5 0RN(GB)

㉑ Inventor: Yates, Stephen William  
11 Oakdale  
Harwood, Bolton BL2 3JX(GB)  
Inventor: Wood, Alfred  
33, Clifton Crescent, Heyside, Royton  
Oldham, Greater Manchester OL2 6JF(GB)  
Inventor: Eastham, Reginald Henry  
27 Burns Close, Moorside  
Oldham, Greater Manchester OL1 4RE(GB)

㉒ Representative: Barlow, Roy James et al  
J.A. KEMP & CO. 14, South Square, Gray's  
Inn  
London WC1R 5EU(GB)

㉓ Ring spinning, ring doubling and ring twisting frames.

㉔ A textile machine of the ring spinning, ring doubling and ring twisting type having a switched reluctance spindle drive motor (18) and set up to operate with a variable speed spindle (10) and optionally with variable speed delivery rollers (25) to wind yarn (22) onto a package former (20) in the form of a cop. A global control system (50) is provided to instruct the local unit (16) of the switched reluctance drive motor (18) and possibly also control units (52) of the delivery rollers (25).





European Patent  
Office

EUROPEAN SEARCH REPORT

Application Number

EP 90 30 2056

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int. Cl. 5)						
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim							
A	GB-A-2 044 302 (ZINSER TEXTILMASCHINEN GmbH) * Page 3, line 130 - page 4, line 3; figure 3 * ---	1	D 01 H 1/244 D 01 H 1/34						
A	FR-A-2 542 767 (ZINSER TEXTILMASCHINEN GmbH) * Page 4, lines 23-25; figure 2 * ---	1							
A	DE-A-3 717 749 (ZUBLER GERÄTEBAU GmbH) * Column 4, lines 30-34; figure 1 * ---	1							
A	ENGINEERING, vol. 223, no. 4, April 1983, pages 271-273, London, GB; B. RAY: "Iron meets silicon in new motor" * Page 273, column 2, lines 11-19 * -----								
			TECHNICAL FIELDS SEARCHED (Int. Cl. 5)						
			D 01 H						
<p>The present search report has been drawn up for all claims</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Place of search</td> <td style="width: 33%;">Date of completion of the search</td> <td style="width: 34%;">Examiner</td> </tr> <tr> <td>THE HAGUE</td> <td>29-01-1991</td> <td>FAIRBANKS S.A.</td> </tr> </table>				Place of search	Date of completion of the search	Examiner	THE HAGUE	29-01-1991	FAIRBANKS S.A.
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THE HAGUE	29-01-1991	FAIRBANKS S.A.							
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									