

12

# EUROPEAN PATENT APPLICATION

21 Application number: 89304809.0

51 Int. Cl.<sup>5</sup>: D02G 1/16

22 Date of filing: 11.05.89

30 Priority: 19.05.88 GB 8811843  
19.05.88 GB 8811842

43 Date of publication of application:  
23.11.89 Bulletin 89/47

84 Designated Contracting States:  
CH DE FR IT LI

88 Date of deferred publication of the search report:  
17.10.90 Bulletin 90/42

71 Applicant: RIETER SCRAGG LIMITED  
Langley  
Macclesfield Cheshire, SK11 0DF(GB)

72 Inventor: Wheeler, Martin John  
24 Greenway Road Herald Green  
Cheadle Cheshire(GB)

74 Representative: Graves, Ronald  
Rieter Scragg Limited Langley  
Macclesfield Cheshire, SK11 0DF(GB)

54 Yarn texturing machine.

57 A yarn texturing machine (10) having an air jet (24) for combining and texturing at least two yarns (15, 16) to form a single textured yarn (30), comprises respective yarn feed and drawing devices (17, 18, 19, 20) for each yarn (15, 16). To give good control of the yarns (15, 16) in the low tension region upstream of the jet (24) the drawing devices (19, 20) are positioned relative to the jet (24) and each other so that the yarns (15, 16) travelling to the jet (24) travel along straight, spaced yarn paths which converge at the jet (24) at an angle of between 70° and 50°, and lie in a plane inclined at between 60° and 90° to the axis of the jet (24). After the jet (24) the textured yarn (30) is passed upwardly then downwardly over a setting heater (33) located above the jet (24) and then to wind-up means (36) disposed beneath the jet (24).

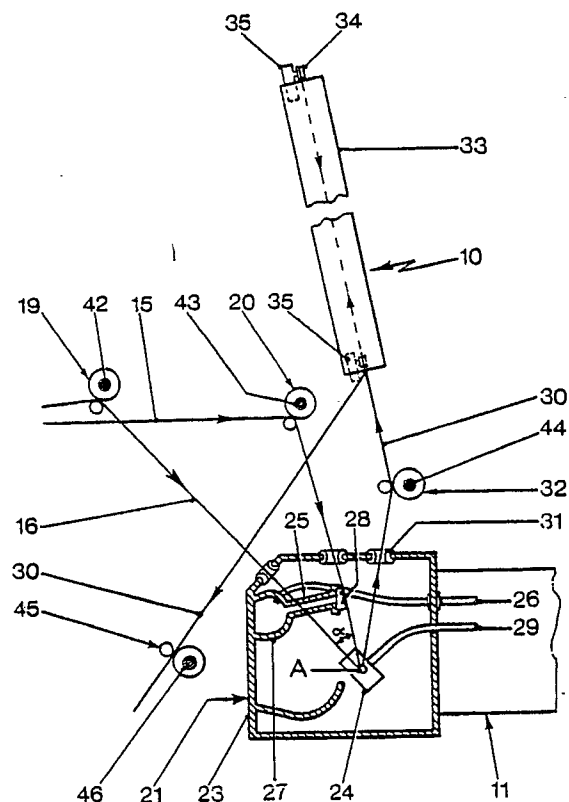


FIG. 2

EP 0 342 870 A3



| 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-U-8 335 961 (BARMAG BARMAR MASCHINENFABRIK AG)<br>* Page 6, line 21 - page 8, line 8 *                                | 1-3                                            | D 02 G 1/16                                    |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ---                                                                                                                      | 4,9                                            |                                                |
| D,A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | US-A-4 608 814 (G.F. MOORE et al.)<br>* Column 3, line 24 - column 4, line 41; claims 14-15 *                            | 1-4,6-8                                        |                                                |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | DE-A-3 623 370 (BARMAG BARMAR MASCHINENFABRIK AG)<br>* Claims 1-5,8; column 2, line 9 - column 6, line 27; figures 1,2 * | 1,3-9                                          |                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                          |                                                | TECHNICAL FIELDS SEARCHED (Int. Cl.4)          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                          |                                                | D 02 G                                         |
| The present search report has been drawn up for all claims                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                          |                                                |                                                |
| Place of search<br>THE HAGUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                          | Date of completion of the search<br>25-07-1990 | Examiner<br>HOPKINS S.C.                       |
| <div>CATEGORY OF CITED DOCUMENTS</div> <div>X : particularly relevant if taken alone<br/>Y : particularly relevant if combined with another document of the same category<br/>A : technological background<br/>O : non-written disclosure<br/>P : intermediate document</div> <div>T : theory or principle underlying the invention<br/>E : earlier patent document, but published on, or after the filing date<br/>D : document cited in the application<br/>L : document cited for other reasons<br/>.....<br/>&amp; : member of the same patent family, corresponding document</div> |                                                                                                                          |                                                |                                                |