



⑫

## EUROPEAN PATENT APPLICATION

⑬ Application number: 88830029.0

⑮ Int. Cl.<sup>4</sup>: B 65 B 27/12  
B 65 B 13/20

⑭ Date of filing: 27.01.88

⑩ Priority: 28.01.87 IT 931287

⑰ Applicant: GUALCHIERANI SYSTEM s.a.s. di Sergio  
Gualchierani & C.  
Viale della Repubblica 141  
I-50047 Prato Firenze (IT)

⑪ Date of publication of application:  
03.08.88 Bulletin 88/31

⑯ Inventor: Gualchierani, Sergio  
Via G. Fossi 10  
I-50047 Prato Firenze (IT)

⑫ Designated Contracting States:  
AT BE CH DE ES FR GB GR LI LU NL SE

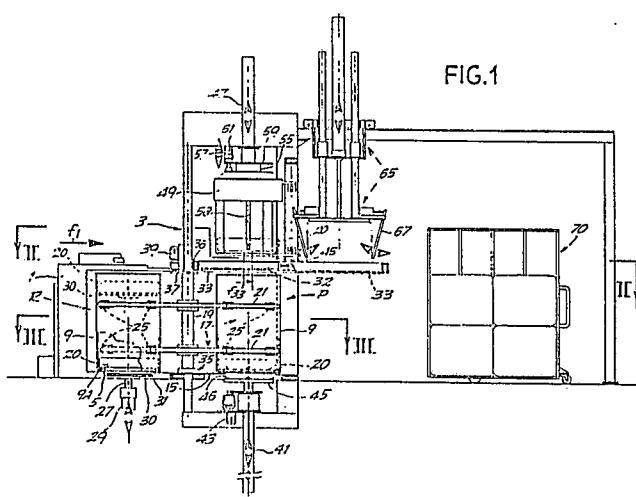
⑰ Representative: Mannucci, Gianfranco, Dott.-Ing.  
Ufficio Tecnico Ing. A. Mannucci Via della Scala 4  
I-50123 Firenze (IT)

⑬ Date of deferred publication of search report:  
12.04.89 Bulletin 89/15

⑭ Automated plant for the formation, pressing and handling of coiled packings of textile ribbon or rove, or the like.

⑮ An automated plant for the formation, pressing, binding and handling of coiled packings (bumps) of ribbon (or rove) of combed fibres, or the like, delivered by the coiler of a special machine (1), comprises in combination: at least a pair of containers (9,20) made up only of cylindrical walls (9) with a bottom plane of platform (20) capable of being raised and lowered, equal to each other; at the position in which a container is filled with coiled material, means (29,30) for the lifting and lowering of the container bottom platform (20) and for causing it to rotate in concomitance with the lowering; means (17) for simultaneously operating the change-over of a filled container (9,20) from the filling position (R) to the pressing position (P), and of the other already empty container (9,20) from the pressing position (P) to the filling position (R); a press (3) comprising means (41,45) for lifting said bottom (20) to determine the pressing against and in collaboration with an upper plate or dish (49) of the press (3) and for the successive lifting of the material from the cylindrical wall (9) of the container; on the press, means (47) for the vertical displacements of the upper dish (49) as well as means (50,53) for the binding of the material maintained in pressing condition and means (43,45,46) for the rotation thereof for successive bindings; and, further more, means (33) for withdrawing the bound material from the press and putting it below a gripping,

lifting and transfer equipment (65) which places it into a multiseat carriage container (70).





EP 88 83 0029

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) |  |  |
|--|--|-------------------|--|--|--|
| A  | EP-A-0 133 422 (GUALCHIERANI & C.S.P.A.)<br>* Whole document *<br>---            | 1                 | B 65 B 27/12<br>B 65 B 13/20                   |  |  |
| A  | US-A-3 655 851 (SHELTON et al.)<br>* Column 3, lines 63-66; figures 4,5 *<br>--- | 1                 |  |  |  |
| A  | GB-A-1 192 743 (WORDSWORTH)<br>-----   |                   |  |  |  |
|  |  |                   | TECHNICAL FIELDS SEARCHED (Int. Cl.4)          |  |  |
|  |  |                   | B 65 B<br>B 65 H<br>B 65 G<br>B 30 B           |  |  |
| <p>The present search report has been drawn up for all claims</p>                |  |                   |  |  |  |
| Place of search  | Date of completion of the search   | Examiner          |  |  |  |
| THE HAGUE  | 27-01-1989   | SCHELLE, J.       |  |  |  |
| CATEGORY OF CITED DOCUMENTS  |  |                   |  |  |  |
| X : particularly relevant if taken alone   | T : theory or principle underlying the invention                                 |                   |  |  |  |
| Y : particularly relevant if combined with another document of the same category | E : earlier patent document, but published on, or after the filing date          |                   |  |  |  |
| A : technological background   | D : document cited in the application  |                   |  |  |  |
| O : non-written disclosure   | L : document cited for other reasons   |                   |  |  |  |
| P : intermediate document  | & : member of the same patent family, corresponding document                     |                   |  |  |  |