



⑪ Publication number: **0 448 524 A3**

⑫ **EUROPEAN PATENT APPLICATION**

⑲ Application number: **91830089.8**

⑤① Int. Cl.⁵: **B31F 1/00, B31B 1/00, B65D 3/02**

⑳ Date of filing: **12.03.91**

③① Priority: **19.03.90 IT 1971590**

④③ Date of publication of application: **25.09.91 Bulletin 91/39**

⑧④ Designated Contracting States: **AT BE CH DE ES FR GB GR LI NL SE**

⑧⑧ Date of deferred publication of search report: **13.11.91 Bulletin 91/46**

⑦① Applicant: **IMBALLAGGI INVERNIZZI S.R.L.**
Via Pontano, 35
I-20127 Milano (IT)

⑦② Inventor: **Invernizzi, Francesco**
c/o IMBALLAGGI INVERNIZZI Srl., Via G. Pontano, 35
I-20127 Milano (IT)

⑦④ Representative: **Cicogna, Franco**
Ufficio Internazionale Brevetti Dott.Prof. Franco Cicogna Via Visconti di Modrone, 14/A
I-20122 Milano (IT)

⑤④ **Method for making fibre box-like containers and related covers, and containers made thereby.**

⑤⑦ The present invention relates to a method for making fibre-box like containers and related covers, which comprises the steps of making a tubular body, (1) including superimposed sheets of a paper material, and stretching this tubular body by rollers (2) arranged at corner portions thereof, in order to cause the tubular body to assume a substantially parallelepipedal shape.

The main feature of the invention is that the method further comprises the steps of: deforming, by a mold, (11,21) an axial end of the tubular body, so as to provide a substantially parallel edge band recessed with respect to the side surface of the tubular body, inwardly bending the corner regions in order to remove the material excess and, finally forming a cover having the same peripheral extension as the box-like body.

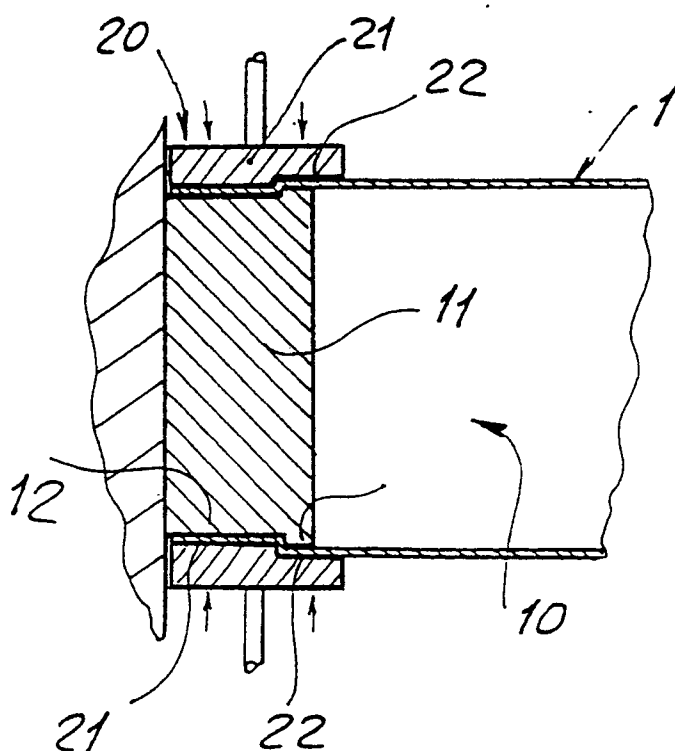


FIG. 6

EP 0 448 524 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number

EP 91 83 0089

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)
P,X	FR-A-2 645 119 (FASSLER) * Figure 2 * ---	1-6	B 31 F 1/00 B 31 B 1/00 B 65 D 3/02
Y	US-A-2 892 749 (CARPENTER) * Figures 1,2,6; column 6, lines 1-3 * ---	1-6	
Y	DE-C- 518 981 (STAHR) * Figures 4,5 * ---	1-6	
Y	US-A-4 292 787 (BUSCHOR) * Figures 3A,3B * ---	1-6	
A	DE-C- 644 209 (JAGENBERG) * Figures 3,4 * ---	5	
A	US-A-2 380 462 (PETERS) * Figure 5 * ---	1-3	
A	BE-A- 847 921 (MARKHORST) * Fig. * ---	1	
A	GB-A- 123 823 (THOMAS FORD) * Figure 7 * ---	1,4	TECHNICAL FIELDS SEARCHED (Int. Cl.5)
A	FR-A- 453 414 (VAN DOREN) * Figure 1 * ---		B 31 F B 31 B B 65 D
A	GB-A- 511 844 (CELLULOID CORP.) * Figures 8-10 * -----		
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 27-08-1991	Examiner CORDENIER 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 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			

EPO FORM 1503 01.92 (P0401)