




# EUROPEAN PATENT APPLICATION

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 **Cartoning machine for alimentary paste of the kind "Cannelloni" or the like.**


 A cartoning machine comprising in succession: a chute (1) for feeding the "cannelloni" in bulk; a vibrating grid chute (2) for advancing the "cannelloni" which is associated to means (23, 24, 25, 26) for the orderly arrangement thereof; a continuous belt conveyor (3) for the longitudinal orientation one after the other; a continuous belt conveyor (4) associated to a control station comprising means (44) for the integrity check, means (45, 46, 47) for the dimension check and means (48) for ejecting the defective pieces; a continuous storage belt conveyor (5); a continuous loading belt conveyor (6); and a boxing station (7). The station (7) comprises a vertical loader (71) having a cross section the dimensions of which are about equal to the diameter and the length of the "cannelloni" and the height of which is such as to contain a number of "cannelloni" greater than that to be introduced in a box or carton, the loader being associated to at least a member (79), which can be vertically moved to support the column of "cannelloni" within the loader (7), and to means (82) guiding the "cannelloni" to be arranged within a box or carton (83) supplied by a well known machine.

FIG.1A

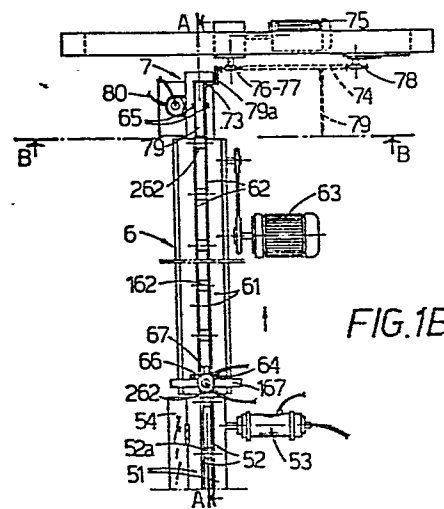
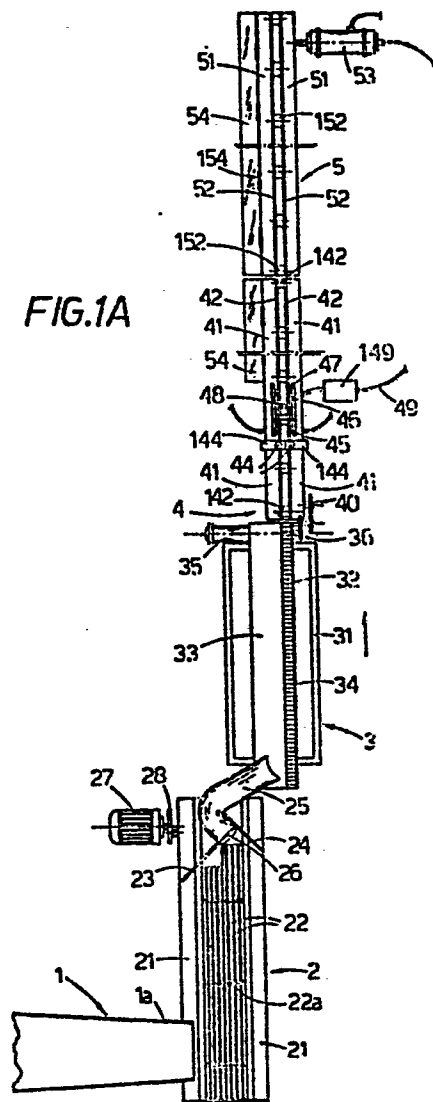


FIG.1B



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	CH-A- 436 104 (F. THEEGARTEN) * Column 3, line 42 - column 4, line 30 *	1	B 65 B 19/34
A	US-A-3 297 248 (H.M. MACLEARN et al.) * Figures 2-4 *	1	
A	DE-A-2 710 435 (SIG) * Page 6, first paragraph; page 9; page 14, second paragraph; figures 1,3-5 *	1,4	
A	DE-A-2 346 407 (M. CAVANNA) * Page 1, third paragraph; page 5, third paragraph; figure *	1,2	
A	FR-A-2 147 529 (ALUSUISSE FRANCE S.A.) * Page 1, line 25 - page 2, line 6; figure *	1,5	TECHNICAL FIELDS SEARCHED (Int. Cl.4) B 65 B B 65 G
A	DE-A-2 751 697 (SIG) * Page 14, first paragraph; page 15, second paragraph; claim 4; figure 1 *	1,5	
A	US-A-3 745 740 (T.A. WILLIAMS) * Claim 1; figure 1a *	1,6	
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 20-06-1986	Examiner SCHELLE, J.
<b>CATEGORY OF CITED DOCUMENTS</b>			
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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
A	CH-A- 407 861 (MASCHINEN FABRIK WINKLER, FALLERT & CO. AG) * Figures 1,2 *	3	
A	--- US-A-3 490 197 (G.V. CREMIEUX) * Column 4, lines 48-54; figures 3,4 *	4	
A	--- US-A-3 618 285 (K.F. RUSSELL) * Column 6, lines 3-30; figure 4 *	1,6,7	
A	--- FR-A-2 420 490 (KABEL- UND METALLWERKE GUTEHOFFNUNGSHÜTTE AG) * Figures 2-6 *	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
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