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⑤④ Fluid dispensing nozzle and feeding apparatus, particularly for a packaging machine.

⑤⑦ A filling device for cartons C comprises a row of vertical ducts arranged along a path of the cartons C. Each duct includes, progressing downwardly, an upper bellows 30, a ducting section 32 incorporating an inlet valve 33, a lower bellows 35, and a fixed nozzle 37 incorporating an outlet valve 43. The section 32 is vertically reciprocated by a ram 42. The nozzle 37 comprises a tubular housing 38 containing a valve member 43 comprising a closure part 44 co-operating with a valve seat 50 at the lower extremity of the housing 38, a stem 45, and a driving part 46 of inverted cup shape fixedly received with clearance 56 on the stem 45 and movably received with clearance 54 in the housing 38.

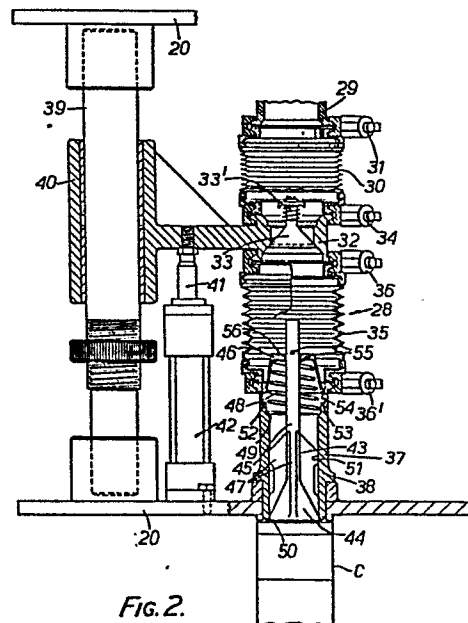


Fig. 2.



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. 3)
E	US-A-4 402 461 (LIQUIPAK) * whole document *	1-8	B 65 B 39/00
E	--- EP-A-0 090 664 (LIQUIPAK) * whole document *	5-8	
A	--- US-A-2 987 082 (SCHAUB) * column 5, line 63 - column 6, line 7; figures 4,5 * -----	1	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int. Cl. 3)
			B 65 B B 67 C
Place of search THE HAGUE		Date of completion of the search 19-09-1984	Examiner CLAEYS H.C.M.
<p><b>CATEGORY OF CITED DOCUMENTS</b></p> <p>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</p> <p>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  &amp; : member of the same patent family, corresponding document</p>			