

12 **EUROPEAN PATENT APPLICATION**

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54 Spin dryer with plastic drum.

57 The invention relates to a rotary washing drying or tumbling machine and particularly to a spin dryer of the type in which an electric motor drives a spinning drum.

The spinning drum 22 is in two cup shaped portions 39 and 40 joined at flanges 44 and 42 by spin friction welding. The upper portion 39 of the drum has apertures 43 through which water can flow to the outside of the drum. Portion 49 has its upper end a balance ring 47 of dense metal or very dense plastic which is attached to the upper drum portion 39 by plastic rivets.

The lower portion 40 of the drum is attached to a mounting 21 which is then directly attached to a motor shaft.

The two flanges 44 and 42 have cooperating projecting ring and groove features to enable the two drum portions to be brought together and held in precise location during the spin friction welding operation.

The preferred material for the drum is polypropylene.

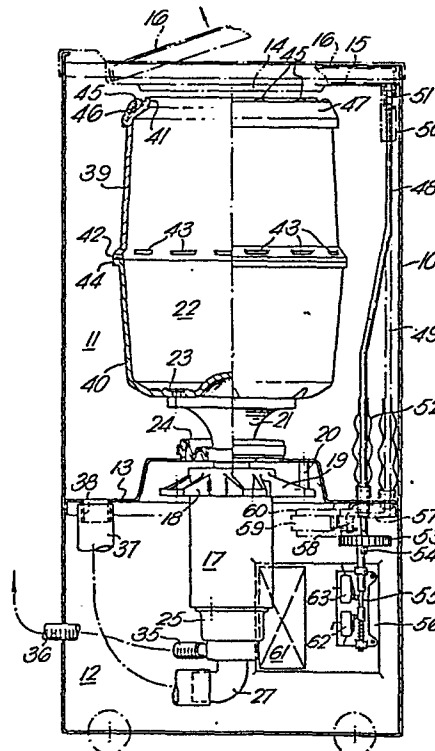


FIG. 1.



European Patent
Office

EUROPEAN SEARCH REPORT

0103418

Application number

DOCUMENTS CONSIDERED TO BE RELEVANT			EP 83304704.6
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 7)
X	US - A - 2 186 263 (MORGENSTERN) * Page 2, lines 54-73 * --	1,4,5	D 06 F 49/02
X	DE - A - 1 432 829 (LICENTIA) * Claims 1-3 * --	1	
A	CH - A - 346 162 (WUCK, KRESSE) * Page 1, lines 51-54 * --	3	
A	DE - B - 1 212 890 (BONN) * Fig. 1 * --	9	
A	DE - B - 1 186 805 (HANNING) * Fig. 1 * --	9	TECHNICAL FIELDS SEARCHED (Int. Cl. 7)
A	DE - B - 1 140 146 (HANNING) * Totality * --	9	D 06 F 49/00 D 06 F 49/00 D 06 F 49/00
A	GB - A - 793 125 (ACME WRINGERS LTD) * Fig. 1 * -----	9	
The present search report has been drawn up for all claims			
Place of search VIENNA		Date of completion of the search 29-06-1984	Examiner KAMMERER
<p>CATEGORY OF CITED DOCUMENTS</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 & : member of the same patent family, corresponding document</p>			