



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
08.10.2003 Bulletin 2003/41

(51) Int Cl.7: **G07F 13/10**

(43) Date of publication A2:
15.05.2002 Bulletin 2002/20

(21) Application number: **01500155.5**

(22) Date of filing: **22.06.2001**

(84) Designated Contracting States:
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE TR
 Designated Extension States:
AL LT LV MK RO SI

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(30) Priority: **23.06.2000 ES 200001695**

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(54) **Bag feeding device for vending machines for the automatic elaboration of dried products with an undefined or granular shape**

(57) The feeder is comprised by a prismatic-rectangular housing (1) containing an electric micro-motor (2) to whose exit shaft a pinion (3) is fixed which, together with a reduction transmission unit (4), moves two parallel and transverse shafts (5) emerging outside through its ends and finished with two pairs of toothed drums (6) over which respective belts (7) are fitted, with corre-

sponding toothing and axial retention, within the housing (1) itself and externally by respective discoid flanges (8), with a diameter slightly greater than the toothed drums, to define the side support of the belts (7), which are provided with a pair of external dragging lugs (9) intended to act over the bags containing the dry product for their dragging from the loader to the preparation device.

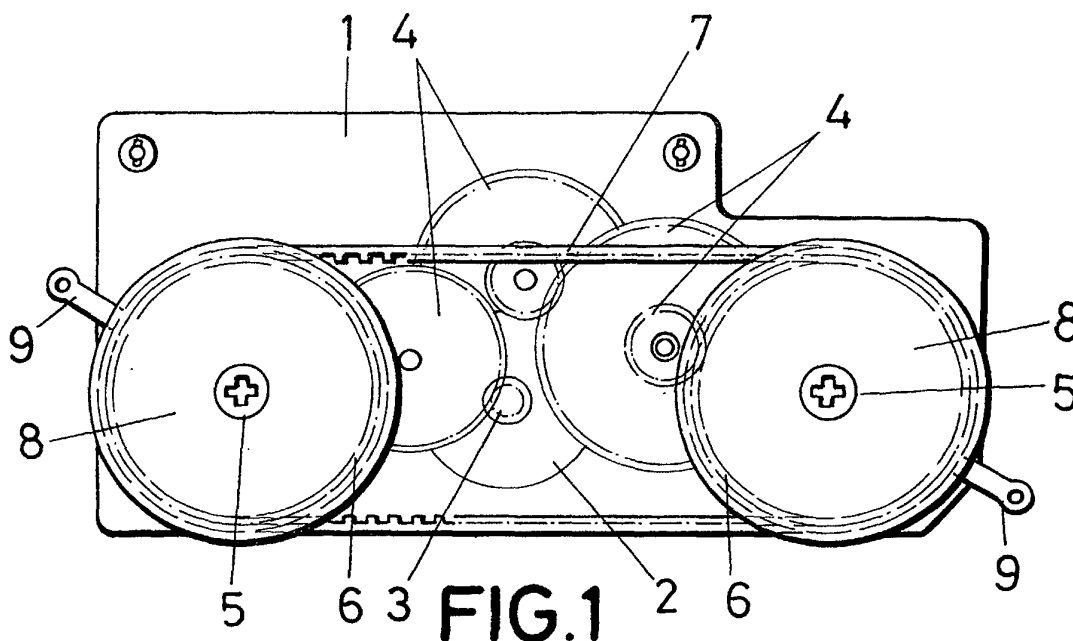


FIG.1



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 01 50 0155

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.7)
X	EP 0 476 273 A (FUJI PHOTO FILM CO LTD) 25 March 1992 (1992-03-25) * abstract * * column 1, line 13,14 * * column 2, line 30-55 * * column 4, line 29-31 * * figure 1 *	1,2	G07F13/10
X	US 5 564 264 A (DECRANE CHARLES E) 15 October 1996 (1996-10-15) * column 5, line 28-65 * * figures 6,7 *	1,2	
A	US 5 191 920 A (MCGREGOR HAROLD R) 9 March 1993 (1993-03-09) * column 4, line 26-31 * * figures 1,3,10 *		
A	EP 0 700 832 A (PAAL KG HANS) 13 March 1996 (1996-03-13)		
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			G07F
The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 19 August 2003	Examiner BREIDENICH, M
<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>			

EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 01 50 0155

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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19-08-2003

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 0476273	A	25-03-1992	JP	2764462 B2	11-06-1998
			JP	4087910 A	19-03-1992
			JP	4102505 A	03-04-1992
			DE	69122587 D1	14-11-1996
			DE	69122587 T2	13-02-1997
			EP	0476273 A1	25-03-1992
			US	5152124 A	06-10-1992

US 5564264	A	15-10-1996	NONE		

US 5191920	A	09-03-1993	NONE		

EP 0700832	A	13-03-1996	DE	19522688 C1	14-08-1996
			DE	19523752 A1	28-03-1996
			DE	29520908 U1	09-05-1996
			DE	59508218 D1	31-05-2000
			EP	0700832 A2	13-03-1996
			ES	2145189 T3	01-07-2000
			DE	29604275 U1	02-05-1996
			NO	962666 A	23-12-1996
