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(54) **Tumble dryer**

(57) A tumble dryer has a drum 1 mounted in a cabinet 2, the drum having an opening 3 through which the drum is loaded and which is closed by a door (now shown) in use. Heated air enters the drum at the rear via opening 8 under the propulsion of a blowing fan 5, and cooler moist air leaves the front of the drum and is fed to a duct 10 to be led to the rear of the dryer to be exhausted, for example, to the atmosphere. According to the invention, a cyclone separator 11 is provided into which the drying air leaving the drum is fed tangentially. A further sucking fan 15 is provided to increase the velocity of the moist air entering the cyclone separator. Fluff build-up in the cyclone separator can be disposed of periodically by undoing a cap 14.

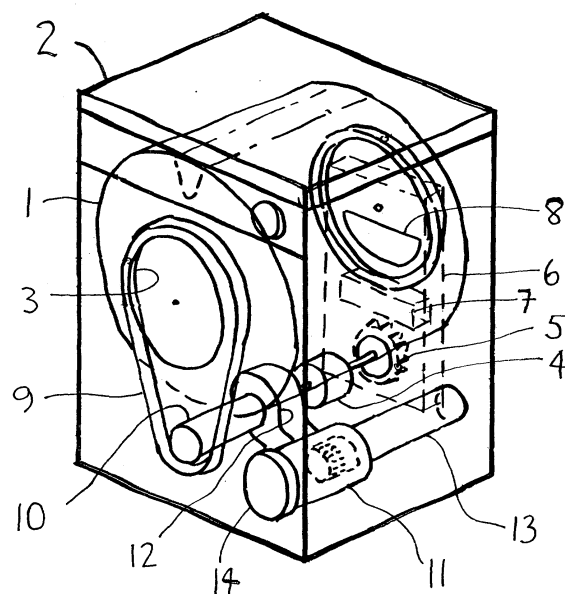


FIG 1

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EUROPEAN SEARCH REPORT

Application Number
EP 03 25 4341

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 3 139 633 A (FECHO RHINE G ET AL) 7 July 1964 (1964-07-07)	14	D06F58/22
A	* column 4, line 37 - line 43 * * column 5, line 39 - line 43 * * figures 1,3 *	1,15	
A	----- US 2 959 044 A (STONE AIDAN M) 8 November 1960 (1960-11-08) * column 4, line 66 - column 5, line 9; figure 1 *	1,14	
A,D	----- US 6 016 610 A (SEARS ET AL) 25 January 2000 (2000-01-25) * column 2, line 21 - line 41; figure 1 *	1,14	
A,D	----- US 5 706 588 A (DAUSCH ET AL) 13 January 1998 (1998-01-13) * column 2, line 65 - column 3, line 46; figures 2,3 *	1,14	
A,D	----- PATENT ABSTRACTS OF JAPAN vol. 2000, no. 14, 5 March 2001 (2001-03-05) -& JP 2000 329376 A (SHARP CORP), 30 November 2000 (2000-11-30) * abstract; figures 1,2 *	1,14	TECHNICAL FIELDS SEARCHED (IPC) D06F
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 23 December 2005	Examiner Courrier, G
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			

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

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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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23-12-2005

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 3139633	A	07-07-1964	NONE	
US 2959044	A	08-11-1960	FR 1254071 A	17-02-1961
US 6016610	A	25-01-2000	CA 2260724 A1	15-10-1999
US 5706588	A	13-01-1998	NONE	
JP 2000329376	A	30-11-2000	JP 3438037 B2	18-08-2003