

(11) **EP 2 848 730 A3**

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: 29.07.2015 Bulletin 2015/31

(51) Int Cl.: **D06F** 58/22 (2006.01)

- (43) Date of publication A2: 18.03.2015 Bulletin 2015/12
- (21) Application number: 14193979.3
- (22) Date of filing: 22.12.2010
- (84) Designated Contracting States:

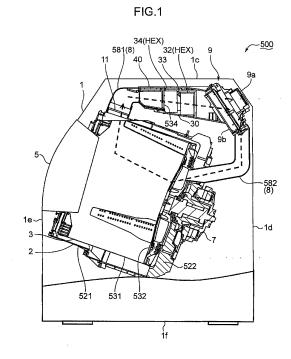
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

- (30) Priority: 28.12.2009 JP 2009298667
- (62) Document number(s) of the earlier application(s) in accordance with Art. 76 EPC: 10196598.6 / 2 351 883
- (71) Applicant: Panasonic Corporation Kadoma-shi Osaka 571-8501 (JP)

- (72) Inventors:
 - Kurakake, Toshiyuki Osaka, 540-6207 (JP)
 - Nakai, Kouji
 Osaka, 540-6207 (JP)
 - Terai, Kenji
 Osaka, 540-6207 (JP)
 - Nakamoto, Shigeharu Osaka, 540-6207 (JP)
- (74) Representative: Schwabe Sandmair Marx Patentanwälte
 Stuntzstraße 16
 81677 München (DE)

(54) Drying machine and washing machine comprising a drying machine

(57)A drying machine (500) including housing (1), outer vessel (2) supported in housing (1), rotating drum (3) mounted in outer vessel (2) to accommodate and dry clothing, heat pump device (30) including heat exchanger (HEX) for drying clothing in rotating drum (3), blower (9) for blowing dry air, circulatory ventilation flue (8) for connecting outer vessel (2) to heat pump device (30) to define circulation path through which dry air from blower (9) circulates, and filter (40) disposed in circulatory ventilation flue (8) to prevent infiltration of dust components into heat exchanger (HEX), wherein filter (40) and heat exchanger (HEX) are disposed in upper space above outer vessel (2) formed in housing (1), and filter (40), heat exchanger (HEX) and blower (9) are disposed in sequence along flow direction of dry air.



EP 2 848 730 A3



EUROPEAN SEARCH REPORT

Application Number

EP 14 19 3979

		DOCUMENTS CONSIDI				
	Category	Citation of document with in of relevant passa	dication, where appropriate, ges	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)	
10	X	JP 2009 077771 A (H 16 April 2009 (2009 * paragraphs [0001] figures 2, 5 *		1-5,8,9	INV. D06F58/22	
15	A	JP 2004 135715 A (M CORP; NIPPON KENTET 13 May 2004 (2004-0 * abstract; figure	SU CO LTD) 5-13)	1-9		
20	A	HAUSGERAETE [DE]) 5	1 (BSH BOSCH SIEMENS July 2007 (2007-07-05) - [0023]; figure 1 *	1-9		
25	A	JP 2008 194439 A (M CORP; NIPPON KENTET 28 August 2008 (200 * abstract; figure	SU CO LTD) 8-08-28)	1-9		
30					TECHNICAL FIELDS SEARCHED (IPC) D06F	
35						
40						
45						
1		The present search report has b				
		Place of search Munich	Date of completion of the search 16 June 2015	Mes	Examiner termayer, Wilhelm	
50 S55	X: parl Y: parl door A: tecl	MUNICN 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 MESTERMayer, 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				
55	P: inte	rmediate document	document	me patent family,	, concaponding	

2

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

EP 14 19 3979

5

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 The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

16-06-2015

70

15	
20	

25

30

35

40

45

50

55

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 2009077771 A	16-04-2009	JP 4764861 B2 JP 2009077771 A	07-09-2011 16-04-2009
JP 2004135715 A	13-05-2004	NONE	
DE 102005062940 A1	05-07-2007	DE 102005062940 A1 EP 1974088 A1 KR 20080081936 A US 2009223077 A1 WO 2007077084 A1	05-07-2007 01-10-2008 10-09-2008 10-09-2009 12-07-2007
JP 2008194439 A	28-08-2008	JP 4975150 B2 JP 2008194439 A JP 2010246994 A	11-07-2012 28-08-2008 04-11-2010
WHO BY For more details about this annex : see G			
u. ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	Official Journal of the Euro	pean Patent Office, No. 12/82	