(11) **EP 1 865 263 A3**

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: **06.01.2010 Bulletin 2010/01**

(51) Int Cl.: F24C 15/00 (2006.01)

F24C 15/20 (2006.01)

(43) Date of publication A2: 12.12.2007 Bulletin 2007/50

(21) Application number: 07109249.8

(22) Date of filing: 30.05.2007

(84) Designated Contracting States:

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated Extension States:

AL BA HR MK RS

(30) Priority: 31.05.2006 IT MI20061067

(71) Applicant: Imper S.p.A. 10122 Torino (IT)

(72) Inventor: PAGANO, Gaetano 50123 Firenze (IT)

(74) Representative: Jorio, Paolo et al STUDIO TORTA
Via Viotti 9
10121 Torino (IT)

(54) Integrated fan assembly for cooling an oven

(57) An integrated fan assembly (1) for cooling an oven (60) has a tangential fan (3) having an axis (R) of rotation; a scroll casing (2) housing the fan and having an intake opening (16) and a delivery opening (17), both located along a peripheral edge (18) of the fan (3) and spaced angularly apart about the axis (R); and a delivery conduit (21) connected to the delivery opening (17) and

projecting from the scroll casing (2); the scroll casing (2) is formed integrally in one piece with the delivery conduit (21) to form a one-piece body (25) of molded plastic material; and the scroll casing (2) has an auxiliary intake opening (19) connected to an intake flue (20).



EUROPEAN SEARCH REPORT

Application Number EP 07 10 9249

	DOCUMENTS CONSID	ERED TO BE RELEVANT		
Category	Citation of document with in of relevant pass	ndication, where appropriate, ages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
Х	US 3 223 313 A (KIN 14 December 1965 (1 * column 1, line 64 * column 2, line 37 * column 5, line 47	965-12-14) ; figures 1-3 *	1,3-11	INV. F24C15/00 F24C15/20
X	ELECTRIC APPLIANCE) 1 February 2006 (20	London, GB; AN (LG ELECTRONIC TIANJIN 006-02-01)	1	
Υ	* abstract; figure	1 *	15	
X Y	DE 42 11 755 A1 (L1 14 October 1993 (19 * claims 4,11; figu	93-10-14)	8-10, 13-14 1-2,12, 15-17	
Υ		1 (ELECTROLUX HOME PROD ber 2005 (2005-09-08) 36; figures 3-4 *	1,16-17	TECHNICAL FIELDS SEARCHED (IPC)
Υ	EP 1 251 281 A1 (BV MEDYS S P A [IT]) 23 October 2002 (20 * figures 1-2 *	M SYSTEMS S P A [IT]	2,12	
X,P	JP 2006 220021 A (N 24 August 2006 (200 * figures 1-5 *		1,3-7	
	The present search report has	been drawn up for all claims		
	Place of search	Date of completion of the search		Examiner
	The Hague	19 November 2009	Ada	nt, Vincent
X : parti Y : parti docu A : tech O : non	ATEGORY OF CITED DOCUMENTS icularly relevant if taken alone icularly relevant if combined with anot iment of the same category nological background written disclosure mediate document	T : theory or principle E : earlier patent door after the filling date her D : document cited in L : document oited fo & : member of the sar document	ument, but publis the application rother reasons	shed on, or

EPO FORM 1503 03.82 (P04C01)

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

EP 07 10 9249

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.

19-11-2009

	Patent document ed in search report		Publication date		Patent family member(s)		Publication date
US	3223313	Α	14-12-1965	NONE			
CN	1727689	Α	01-02-2006	NONE			
DE	4211755	A1	14-10-1993	NONE			
DE	102004008465	A1	08-09-2005	AT DK EP EP	414875 1589287 1589287 2031309	T3 A1	15-12-20 16-03-20 26-10-20 04-03-20
EP	1251281	A1	23-10-2002	AT DE DE ES IT	291697 60109577 60109577 2237520 MI20010219	D1 T2 T3	15-04-20 28-04-20 09-02-20 01-08-20 17-10-20
JP	2006220021	Α	24-08-2006	NONE			

© For more details about this annex : see Official Journal of the European Patent Office, No. 12/82