(19) Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) EP 1 757 871 A3

(12) EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
03.12.2008 Bulletin 2008/49

(43) Date of publication A2:
28.02.2007 Bulletin 2007/09

(21) Application number: **06001224.2**

(22) Date of filing: **20.01.2006**

(51) Int Cl.:
F24F 9/00 *(2006.01)* ***F24F 13/08*** *(2006.01)*
F24C 15/20 *(2006.01)*

(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 NL PL PT RO SE SI SK TR
Designated Extension States:
AL BA HR MK YU

(30) Priority: **22.08.2005 KR 2005077010**

(71) Applicant: **LG Electronics Inc.**
Yongdungpo-gu
Seoul (KR)

(72) Inventors:
- **Baek, Seung-Jo**
  Gwangmyeong
  Gyeonggi-Do (KR)
- **Sohn, Sang-Bum**
  Seocho-Gu
  Seoul (KR)
- **Song, Sung-Bae**
  Manan-Gu
  Anyang
  Gyeonggi-Do (KR)

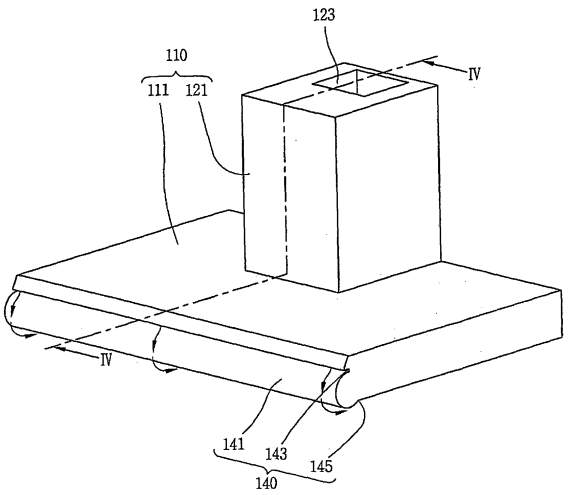
(74) Representative: **Vossius & Partner**
Siebertstrasse 4
81675 München (DE)

(54) Exhaust hood

(57) An exhaust hood is disclosed. An exhaust hood includes: a hood body 110 having a canopy 111 including an inlet 117, and an exhaust part 121 connected with the canopy 111 and having an exhaust flow path 123 therein; and a nozzle unit 140 installed at a front side of the hood body 110, and having a curved shape portion 141, a first nozzle 143 discharging air from top along a circumferential direction of the curved shape portion 141, and a second nozzle 145 discharging air from bottom along the circumferential direction of the curved shape portion 141 therein.

Accordingly, contaminated air moving toward the front of the exhaust hood can be effectively introduced to the inlet and be collected. In addition, when an auxiliary nozzle unit is additionally provided, contaminated air moving toward the side of the exhaust hood can be effectively introduced and be collected as well. Thus, pleasant cooking and experimental environments can be created. In addition, an extended zone produced by a mixed air current generated by adding air from the first nozzle and the second nozzle to each other blocks hot contaminated air toward the face of a cook to thereby create a pleasant cooking environment.

FIG. 3



EP 1 757 871 A3

Europäisches Patentamt
European Patent Office
Office européen des brevets

EUROPEAN SEARCH REPORT

Application Number
EP 06 00 1224

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 6 336 451 B1 (ROEHL-HAGER HANNELORE [DE] ET AL) 8 January 2002 (2002-01-08) * column 10, lines 49-65; figure 21 * -----	1-4,6, 11,15	INV. F24F9/00 F24F13/08 F24C15/20
A	DE 42 03 916 C1 (ROEHL-HAGER, HANNELORE, 8400 REGENSBURG, DE; KOPPENWALLNER, GEORG, DR.) 29 April 1993 (1993-04-29) * column 4, line 35 - column 5, line 15; figures 4,8 * -----	1	
A	DE 100 15 666 A1 (KOPPENWALLNER GEORG EMANUEL [DE]) 28 June 2001 (2001-06-28) * figures 3,13,18,24 * -----	1	

TECHNICAL FIELDS SEARCHED (IPC)

F24C
F24F
B08B

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
Munich	24 September 2008	Lienhard, Dominique

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

EPO FORM 1503 03.82 (P04C01)

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO. EP 06 00 1224

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.

24-09-2008

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6336451 B1	08-01-2002	AT 185189 T	15-10-1999
		WO 9738266 A2	16-10-1997
		DE 19613513 A1	09-10-1997
		EP 0891519 A2	20-01-1999
		ES 2140975 T3	01-03-2000
DE 4203916 C1	29-04-1993	EP 0555676 A1	18-08-1993
		ES 2092143 T3	16-11-1996
DE 10015666 A1	28-06-2001	NONE	

EPO FORM P0459

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