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(54) **HOB DEVICE**

(57) A hob device (100) comprising
• a hob (102) having an opening (108),
• an extraction device arranged below the hob (102) and
having a fan (110) for extracting cooking fumes from
above the hob (102) through the opening (108),
• an odor filter assembly (114) disposed in the direction of
flow of the cooking fumes between the opening (108) and
the fan (110),

wherein the odor filter assembly (114) comprises an odor
filter housing (116) and at least one odor filter (118, 118'),
and

the odor filter housing (116) has at least one abutment
surface (116b; 116g) for lateral abutment of an asso-
ciated odor filter (118, 118'),

the odor filter housing (116) comprises latch connection
means (116c) and the at least one odor filter (118) com-
prises latch connection counter means (118a, 118a')
adapted and intended to cooperate with the latch con-
nection means (116c) of the odor filter housing (116) to
hold the at least one odor filter (118, 118') to the odor filter
housing (116), and

the odor filter housing (116) has, above the at least one
support surface (116a) and at least partially within the at
least one abutment surface (116b), a recess (116e)
whose lower boundary surface forms a further support

surface (116f) and whose lateral boundary surface forms
a further abutment surface (116g), and
the at least one odor filter (118') is dimensioned such that
it protrudes from the further support surface (116f) and is
supported by the further support surface (116f) when its
latch connection counter means (118a') cooperate with
the latch connection means (116c) of the odor filter
housing (116).

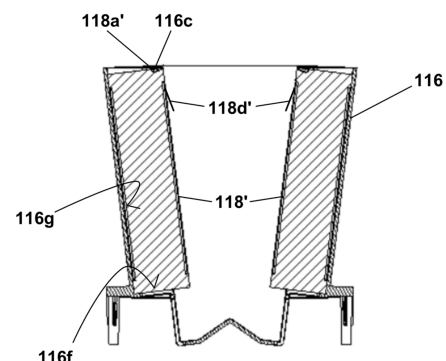


Fig. 5

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EUROPEAN SEARCH REPORT

Application Number

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DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	DE 10 2018 213743 A1 (BRUCKBAUER WILHELM [DE]) 20 February 2020 (2020-02-20) * paragraphs [0001], [0028], [0050]; figures 1-5 *	1,2	INV. F24C15/20
A	WO 2019/081271 A1 (BSH HAUSGERAETE GMBH [DE]) 2 May 2019 (2019-05-02) * page 11, paragraph 1-3; figure 2 *	1,2	
A	EP 0 974 790 A2 (SIRIUSDUNSTABZUGSGERAETE GMBH [DE]) 26 January 2000 (2000-01-26) * paragraph [0016]; figure 3 *	1,2	
A	US 2022/178552 A1 (FLESCH SEBASTIEN [FR] ET AL) 9 June 2022 (2022-06-09) * figures *	1,2	
A	US 6 455 818 B1 (ARNTZ TIMOTHY J [US] ET AL) 24 September 2002 (2002-09-24) * figure 2 *	1,2	
A	US 2021/055002 A1 (CHARTREL AURÉLIEN [FR] ET AL) 25 February 2021 (2021-02-25) * figures *	1,2	TECHNICAL FIELDS SEARCHED (IPC) F24C
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 30 March 2026	Examiner Verdoodt, Luk
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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30-03-2026

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
DE 102018213743 A1	20-02-2020	NONE	
WO 2019081271 A1	02-05-2019	EP 3701192 A1 WO 2019081271 A1	02-09-2020 02-05-2019
EP 0974790 A2	26-01-2000	AT E267986 T1 DE 29824156 U1 EP 0974790 A2 ES 2221268 T3	15-06-2004 10-08-2000 26-01-2000 16-12-2004
US 2022178552 A1	09-06-2022	CN 113646588 A EP 3956610 A1 EP 4474718 A2 US 2022178552 A1 WO 2020212261 A1	12-11-2021 23-02-2022 11-12-2024 09-06-2022 22-10-2020
US 6455818 B1	24-09-2002	CA 2393810 A1 US 6455818 B1	23-02-2003 24-09-2002
US 2021055002 A1	25-02-2021	CN 111971510 A EP 3775700 A1 US 2021055002 A1 WO 2019197055 A1	20-11-2020 17-02-2021 25-02-2021 17-10-2019

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