

Title (en)  
Extracting hood with air circulation.

Title (de)  
Umluft-Dunstabzugshaube.

Title (fr)  
Hotte d'évacuation à circulation d'air.

Publication  
**EP 0118570 A2 19840919 (DE)**

Application  
**EP 83101730 A 19830223**

Priority  
DE 3304262 A 19830208

Abstract (en)  
1. Fume extraction hood with air circulation having longitudinal blow-out slots (7, 8 ; 24), which operates in connection with a working surface and which is provided above a kitchen stove (1) or a similar dust or fume source, with which by means of a hood fan (5) with filter (3) the fume is exhausted from the fume source (1) and is discharged within the hood through air passages (4, 6, 7, 8) for being discharged from the hood in order to be reabsorbed and further purified, and with which an air curtain (11) is generated by the lower peripheral rim, which restricts the fume flow, which extends downwardly and outwardly in an inclined manner, and which prevents the fume flow from escaping from the area above the fume source outwardly, characterized in that the air curtain on at least two opposite free lateral surfaces or on all free lateral surfaces is downwardly directed in the form of locally plane free jets (11) in an angle of about 10-15 degrees towards the edge of the working surface in such a manner that the air curtain when hitting the working surface forms a ram line (12) and the inwardly directed air flow is introduced into the suction area (10) as a dynamic updraft flow (13), whereby the speed of the updraft flow is a multiple of the speed of the suction flow at the introduction area.

Abstract (de)  
Eine Umluft-Dunstabzugshaube, z.B. für Kochstellen, wird so betrieben, daß ein Luftvorhang über längliche Schlitze der Haube, die auf drei Seiten bzw. bei Kochinseln auf vier Seiten ausgebildet sind, in Form von lokalebenen Freistrahlen nach abwärts auf den Rand der Arbeitsfläche gerichtet. An der Auftreffstelle auf der Arbeitsfläche wird der Luftvorhang abgelenkt, aufgestaut und als dynamischer Aufstrom nach innen umgelenkt, wo er dem Ansaugstrom beigemischt wird. Die Geschwindigkeit des dynamischen Aufstromes ist so bemessen, daß sie ein Vielfaches der Geschwindigkeit der Ansaugströmung an der Arbeitsfläche beträgt.

IPC 1-7  
**F24C 15/20**

IPC 8 full level  
**F24C 15/20** (2006.01)

CPC (source: EP)  
**F24C 15/2028** (2013.01)

Cited by  
CN110631097A; DE102006023718A1; CN100451453C; US7503842B2; CN116000045A; CN113943969A; GB2337323A; NL1008444C2; GB2337323B; FR2843054A1; CN110454830A; CN113167482A; CN114602922A; US6173710B1; WO2005106337A1; WO9822755A1; WO9838462A1; EP2594852B1; EP2594852B2

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