

Publication

EP 0567200 A3 19940112

Application

EP 93201191 A 19930421

Priority

IT PN920035 A 19920422

Abstract (en)

[origin: EP0567200A2] A self-cleaning hood for recirculating and purifying air comprises a casing (5), and an internal fan unit (35) by which polluted air is drawn in through inlet holes (25) and returned clean to the room by way of an outlet (38). Inside the casing, the air passes through a purification device consisting in a plurality of hollow cylinders (11) affording pierced walls (12, 13), mounted rotatably about respective horizontal axes internally of a compartment (18) into which the air is taken via the inlet holes (25) and caused to penetrate the cylinders (11) radially; the air then emerges from compartment, purified, by way of openings (31) coinciding with the ends of the cylinders. The cylinders (11) are partially immersed in a cleaning liquid (24) and set in rotation by a mechanical drive train (27, 28, 29) coupled to a motor (30) such that the pierced walls (12, 13) will be bathed continuously with a film of the cleaning liquid, which serves both to retain the pollutant particles entrained in the flow of air and to wash the cylinders (11). <IMAGE>

IPC 1-7

F24C 15/20; **F24F 3/16**

IPC 8 full level

F24C 15/20 (2006.01); **F24F 8/108** (2021.01)

CPC (source: EP US)

F24C 15/20 (2013.01 - EP); **F24F 8/10** (2021.01 - EP); **F24F 8/108** (2021.01 - EP US)

Citation (search report)

- [A] DE 3311381 A1 19841004 - HEIDOLPH ELEKTRO GMBH & CO KG [DE]
- [A] PATENT ABSTRACTS OF JAPAN vol. 009, no. 256 (M - 421) 15 October 1985 (1985-10-15)

Cited by

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AT BE CH DE DK ES FR GB LI LU NL SE

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