

Title (en)  
AIR OUTLET CABINET OF TRAPEZOIDAL CROSS SECTION

Publication  
**EP 0406593 B1 19930602 (DE)**

Application  
**EP 90111181 A 19900613**

Priority  
DE 3921813 A 19890703

Abstract (en)  
[origin: US5054379A] An air release box has at least one perforated bottom wall section and perforated longitudinal side wall sections. At least certain of the perforated wall sections, including the perforated bottom wall section, are equipped with spin air outlets for increasing the penetration depth of low turbulence air jets into a room. Without such spin air outlets the low turbulence air jets tend to be unstable at relatively low exit velocities. The tendency of these air jets to quickly decay is thus delayed. The highly turbulent air jets exiting from said spin air outlets do not entrain air in the room, but rather they entrain inlet air coming through the perforated wall sections neighboring the spin air outlets. Thus, the jet impulse imparts a high stability to the inlet air jets.

IPC 1-7  
**F24F 13/06; F24F 13/068**

IPC 8 full level  
**F24F 13/06** (2006.01); **F24F 13/068** (2006.01)

CPC (source: EP US)  
**F24F 13/06** (2013.01 - EP US); **F24F 13/068** (2013.01 - EP US)

Cited by  
FR2785040A1; EP2363655A1; FR2956899A1

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
**EP 0406593 A2 19910109; EP 0406593 A3 19920102; EP 0406593 B1 19930602**; AT E90150 T1 19930615; DD 296345 A5 19911128; DE 3921813 A1 19910117; DE 3921813 C2 19950330; DE 59001601 D1 19930708; US 5054379 A 19911008

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**EP 90111181 A 19900613**; AT 90111181 T 19900613; DD 34242690 A 19900702; DE 3921813 A 19890703; DE 59001601 T 19900613; US 53704390 A 19900612