

Title (en)  
Floor outlet

Title (de)  
Bodenauslass

Title (fr)  
Bouche d'échappement dans un plancher

Publication  
**EP 0921357 A3 20000607 (DE)**

Application  
**EP 98121083 A 19981106**

Priority  
DE 19753889 A 19971205

Abstract (en)  
[origin: US6050892A] An air outlet vent (1) adapted to be mounted in a floor (6) and connected to a heating, ventilating and air-conditioning air supply duct (30) includes a cylindrical housing (2) and a cover plate (4) that covers the top open end of the housing (2). The plate (4) includes a first group of air outlet openings in the form of concentric circular arcuate slits (11) extending over a first sector of the plate (4), and a second group of air outlet openings in the form of radially extending slits (12) in a second sector of the plate (4). The plate (4) is rotatably adjustable in the housing (2). With this arrangement, the direction of the main air flow axis of the air flow pattern generated by the vent can be infinitely rotationally adjusted around an imaginary inverted cone, to direct the air flow where desired and avoid undesirable drafts, while still providing a highly turbulent twisting or spiraling air flow characteristic.

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

IPC 8 full level  
**F24F 13/068** (2006.01); **F24F 13/06** (2006.01); **F24F 13/10** (2006.01)

CPC (source: EP KR US)  
**F24F 13/06** (2013.01 - EP US); **F24F 13/105** (2013.01 - KR); **F24F 13/14** (2013.01 - KR); **F24F 13/20** (2013.01 - KR);  
**F24F 2221/40** (2013.01 - EP US)

Citation (search report)  
• [A] EP 0507756 A1 19921007 - STIFAB AB [SE]  
• [A] GB 2275528 A 19940831 - GILBERTS [GB]  
• [A] EP 0446557 A2 19910918 - HESCO PILGERSTEG AG [CH]  
• [A] GB 799401 A 19580806 - IAIN MAXWELL STEWART

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CN102434952A; CN104456882A

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
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DE 59811508 D1 20040708; EP 0921357 A2 19990609; EP 0921357 A3 20000607; EP 0921357 B1 20040602; ES 2222547 T3 20050201;  
HK 1021220 A1 20000602; JP 2983978 B2 19991129; JP H11230610 A 19990827; KR 100315173 B1 20021025; KR 19990062630 A 19990726;  
PT 921357 E 20041029; ZA 9810884 B 19990601

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EP 98121083 A 19981106; ES 98121083 T 19981106; HK 99105685 A 19991203; JP 34302198 A 19981202; KR 19980051371 A 19981127;  
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