

Title (en)  
DEVICE FOR PRODUCING A DISPLACEMENT FLOW DEFICIENT IN TURBULENCE

Publication  
**EP 0424671 A3 19910904 (DE)**

Application  
**EP 90118110 A 19900920**

Priority  
DE 3935620 A 19891026

Abstract (en)  
[origin: US5069114A] A device for introducing a low turbulence air displacement flow into an enclosed space, has a first housing section enclosing an air distribution space having an air inlet on one side and air flow passages through another side, and a second housing section having a perforated outer jacket and a non-perforated central core pipe. One central air flow passage connects the core pipe to the air distribution space. A ring of holes or a ring gap leads into a ring space formed between the perforated jacket and the core pipe. A third air passage permits forming an air skirt around the outer surface of the jacket. Control elements permit selectively opening and closing the flow passages, so that all or part of the fresh air may pass through the core pipe and air skirt or through the ring space. The perforated jacket may have a cylindrical portion and a frustum portion connecting the cylindrical portion to a perforated bottom plate. Air exiting through the air skirt and through the core pipe entrains air exiting through the perforated jacket to form the displacement air flow.

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

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

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

Citation (search report)

- [YD] DE 3643175 A1 19880630 - KRANTZ H GMBH & CO [DE]
- [Y] DE 8903028 U1 19890511
- [A] DE 2718760 A1 19781102 - MABAG LUFT & KLIMATECHNIK
- [A] DE 3600821 A1 19860717 - TIEPOLDT DIETER R [DE]

Cited by  
EP0634614A1; CN107965859A; EP0541977A3

Designated contracting state (EPC)  
AT BE CH DE ES FR GB IT LI NL

DOCDB simple family (publication)  
**EP 0424671 A2 19910502; EP 0424671 A3 19910904; EP 0424671 B1 19930203**; AT E85417 T1 19930215; DE 3935620 A1 19910502; DE 3935620 C2 19950420; DE 59000840 D1 19930318; ES 2038473 T3 19930716; US 5069114 A 19911203

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