

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

Publication
EP 0424671 B1 19930203 (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.

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F24F 13/06

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

CPC (source: EP US)
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Cited by
EP0634614A1; CN107965859A; EP0541977A3

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