

Title (en)
SUPPLY AIR OUTLET SYSTEM FOR SPACE VENTILATION

Publication
EP 0216328 B1 19900509 (DE)

Application
EP 86112960 A 19860919

Priority
DE 3533833 A 19850923

Abstract (en)
[origin: EP0216328A2] 1. Supply air discharge system for blowing directed supply air streams into a room in a building, which comprises at least one supply air element (13), which comprises a duct system (17) or a shaft, in the bottom of which is provided a supply air outlet (20) for blowing an approximately vertical supply air stream onto a guide member (23) located at a distance therebelow and comprising deflection members (24, 25), the guide member (23) branching off side streams (34, 35) from the supply air stream and provided below the supply air outlet (20) is a supply air passage of the guide member (23) for a supply air central stream, characterised in that at least one supply air element (13) of the supply air discharge system is constructed in an elongated manner, that the supply air outlet (20) of its duct section (17) or its shaft extends completely or virtually over its length, that the width of the guide member (23) is greater than that of the supply air outlet (20) and the side streams (34, 35) flow along the upper side of the guide member (23) transversely to its longitudinal direction in directions leading away from its vertical, longitudinal central plane towards both sides, beyond the two outer longitudinal edges (36) of this guide member (23) into the room, that the supply air passage (26) in the guide member (23) is permanently open for a supply air central stream able to be extended laterally by the two side streams (34, 35) by induction towards the latter and its width is less than that of the supply air outlet (20), and that on the two longitudinal sides of the supply air passage (26) in the guide member (23) flap-like deflecting plates (24, 25) are arranged as deflecting members, which split up this supply air central stream into blowing streams (30, 31, 32) with several different blowing directions and for this purpose are offset with respect to each other in the longitudinal direction of the supply air passage (26) and point alternately obliquely downwards to the left and obliquely downwards to the right, the deflecting plates (25) pointing obliquely downwards to the left being located on the right-hand longitudinal side of the supply air passage (26) and the deflecting plates (24) pointing obliquely downwards to the right being located on the left-hand longitudinal side of the supply air passage (26).

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IPC 8 full level
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CPC (source: EP)
F24F 13/072 (2013.01); **F24F 13/08** (2013.01)

Cited by
CN113566346A; CN107044683A

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