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Applicant: **HALTON OY**

Teollisuustie 2-4
SF-47400 Kausala(FI)

Inventor: **Kyllönen, Pekka**
Riihitarhankatu 3 A 2
SF-15170 Lahti(FI)

Representative: **Tiedtke, Harro, Dipl.-Ing. et al**
Patentanwaltsbüro,
Tiedtke-Bühling-Kinne & Partner,
Bavariaring 4
D-80336 München (DE)

A suspended ceiling structure and a method for flowing air in connection with the suspended ceiling structure.

The invention relates to a suspended ceiling structure (10) and a method for flowing air in connection therewith. The suspended ceiling structure is especially intended for large-scale kitchen spaces and is formed of modular units, which comprise at least an inlet air unit (11) and an outlet air unit (18) and in an area therebetween a suspended ceiling board (25). The suspended ceiling structure comprises means producing a capture air jet (L_{1a}), whereby the air jet may be brought to flow in the direction of a plane (T) of the suspended ceiling board (25) toward an outlet air opening (20) of the outlet air flow (L_2), whereby the capture air flow (L_{1a})

draws an impure air and/or excess heat or excess moisture risen from the impurity source of the room space toward the outlet air unit (18). The suspended ceiling structure (10) comprises such means producing the capture air jet (L_{1a}), the air-flow discharge opening (D) of which means is located essentially directly in the vicinity of a surface plane ($25'$) of the suspended ceiling board (25) and that the means producing the capture air jet (L_{1a}) comprise an air guiding surface ($27a'$), which orientates the air jet such that it flows in the direction of the plane (T) of the suspended ceiling board (25) toward the outlet air chamber (19) of the outlet air unit (18).

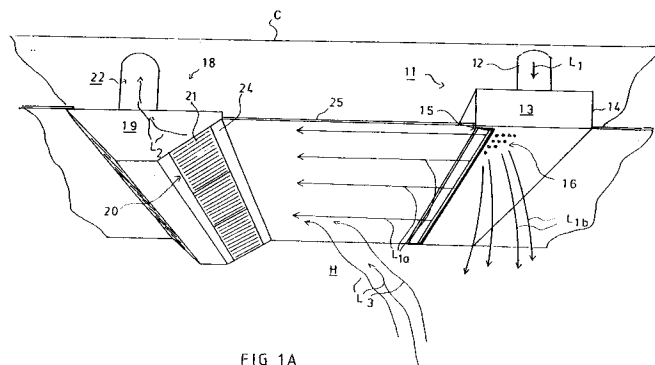


FIG 1A



European Patent
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EUROPEAN SEARCH REPORT

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
A	WO-A-9 111 272 (HALTON OY) * abstract; figure 1 * -----	1, 11	F24F7/10 F24F13/072 F24F7/08 F24C15/20
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			F24F F24C
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 31 AUGUST 1993	Examiner PESCHEL G.
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	