

Title (en)
CEILING ELEMENT

Title (de)
DECKENELEMENT

Title (fr)
ÉLÉMENT DE PLAFOND

Publication
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Application
EP 09821650 A 20091021

Priority
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Abstract (en)
[origin: WO2010046536A1] This invention relates to a ceiling element (1) comprising: an inlet (4) for receiving an air flow; an air supply opening (3) for supplying an air flow into a space; temperature control means (13 to 15) for changing the temperature of the air flow flowing from the inlet (4) to the air supply opening (3); and at least one light source (6) for illuminating the surroundings of the ceiling element (1). In order for the ceiling element to be able to utilize light sources whose electric energy consumption is as low as possible, the ceiling element (1) comprises a nozzle (10) for generating a cooling flow to said at least one light source (6) by utilizing the air flow received from the inlet (4).

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Citation (search report)
• [X] JP 2006145183 A 20060608 - KYATARU KK, et al
• [A] JP S63156944 A 19880630 - MATSUSHITA SEIKO KK
• [A] JP 2004053235 A 20040219 - YANAGIMACHI KIYOSHI, et al
• [A] US 4222316 A 19800916 - ADAM JAKOB
• [A] FR 2764933 A1 19981224 - SADSEC [FR]
• See references of WO 2010046536A1

Cited by
CN110945248A

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