

Title (en)

BOX-SHAPED, HERMETICALLY CLOSED, INTERNALLY INSULATED PANEL AND METHOD OF PRODUCING THE SAME

Publication

EP 0228349 A3 19871125 (EN)

Application

EP 86830298 A 19861016

Priority

IT 2296085 A 19851122

Abstract (en)

[origin: EP0228349A2] A panel comprising a box-shaped element of metal sheet having inwardly bent edges designed to cooperate with mating bent edges of a panel cover, the bent edges of these two elements acting as fastening means between the box and the cover when a material capable of expanding into a rigid-type structure has been injected into the panel, whereby a one-piece, insulated and hermetically closed panel is obtained without the aid of any conventional type of fastening means. The panel is mainly intended for use in air conditioning and processing plants, especially when highly uncontaminated air is required. A method for obtaining a panel according to the invention comprises the steps of forming a box-shaped element provided with particularly profiled edges, forming a cover with mating edges, fitting the edges of the cover into the edges of the box-shaped element, and injecting in the thus formed panel a material capable of foaming "in situ" while blowing out the air contained in the panel, upon polymerization of the foamable material, the latter forming a permanent bond which will hold the two parts of the panel firmly joined together hermetically.

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F04C 2/26

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

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