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(54) **Equipment for cooling and heating spaces in building**

(57) Equipment for cooling and heating spaces in buildings, in whose housing (14), furnished with an entry for the intake of circulating air and an exhaust for conditioned air, there is a heat exchanger (1) unit with fan (4), where that fan (4) is positioned on the outlet side of the heat exchanger (1), whilst under the heat transfer surface of the heat exchanger (1) there is a condensate tank (2). The heat transfer surface of the heat exchanger (1) is tightly closed at both ends by the housing (14), which is furnished with a tightly fitting service lid (7). The heat transfer surface of the heat exchanger (1) consists of a cylindrical annular segment with axis perpendicular to the direction of the horizontal flow of the incoming circulating air, and the unclosed part of the cylinder fits tightly for its whole height against the vertical closing wall of the housing (14). Inside that cylindrical heat transfer surface there is a suction fan (4) whose exhaust passes sealingly through the vertical closing wall of the housing (14) in the location of the unclosed part of the cylinder of the heat transfer surface of the heat exchanger (1), and is connected by a distribution duct (9), through a diffuser (8), to an air distribution element (10).

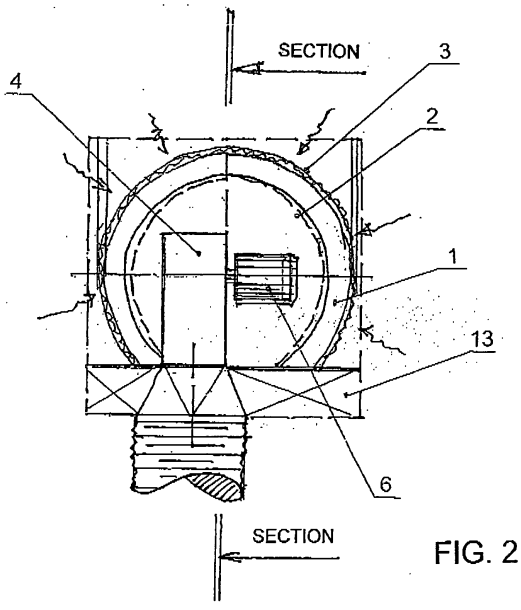

FIG. 2

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EUROPEAN SEARCH REPORT

Application Number
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TECHNICAL FIELDS SEARCHED (IPC)

F24F
F28D
F25D

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
Munich	7 May 2014	González-Granda, C

CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
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A : technological background
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