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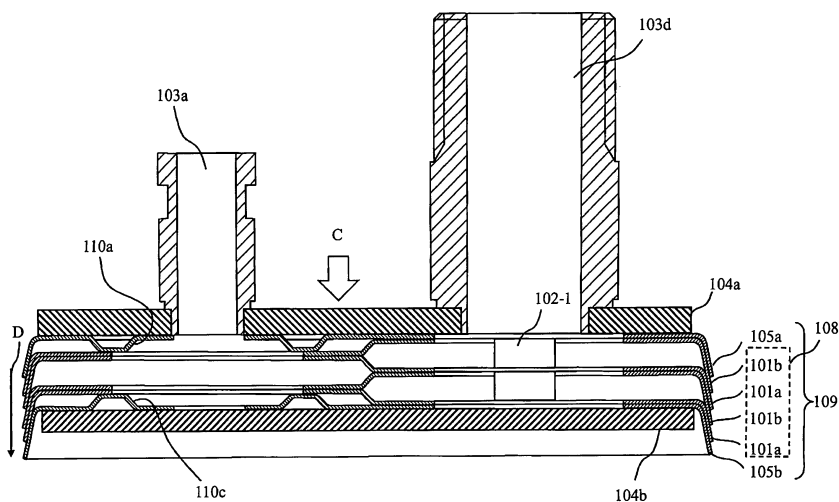
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(54) **Plate heat exchanger and heat pump device**

(57) One of the purpose is to improve a yield ratio of members to be used for a plate heat exchanger and a yield ratio of the plate heat exchanger itself, and to improve a strength of the plate heat exchanger. Each heat transfer plate 101 in the plate heat exchanger has a rectangular shape with a long side and a short side, in which two flow channel holes that are openings through which any of the first fluid and the second fluid passes are

formed respectively on one side of the short sides and another side of the short sides. Each heat transfer plate 101 includes a structure 102 which protrudes from a part of a periphery of any flow channel hole of four flow channel holes, and bends and extends in a direction to be distanced from an opening. The structure 102 is attached firmly to a vicinity of a periphery of a corresponding flow channel hole in a lamination direction of the heat transfer plate that is adjacent on the other side.

Fig. 6





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Application Number
EP 12 00 0962

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The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 5 February 2014	Examiner Delval, Stéphane
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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</p>			

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
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