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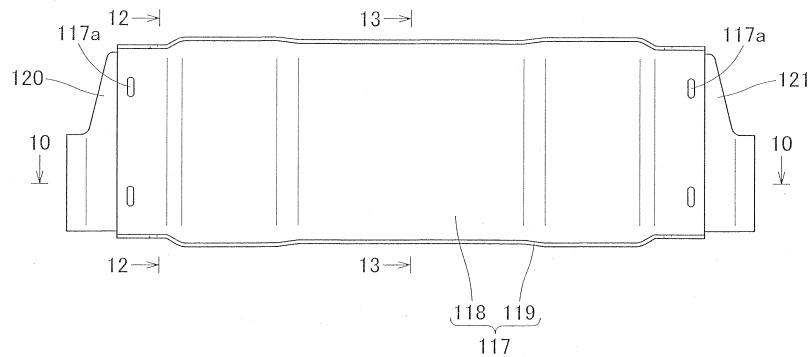
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## (54) Multitubular heat exchanger

(57) Provided is a heat exchanger including a plurality of inner tubes (114) through which a first fluid passes and an outer tube (117) through which a second fluid passes, the inner tubes (114) including thick tube portions (114a) at both ends, a thin tube portion (114b) at the middle, and a tapered tube portion (114c) between the thin tube portion (114b) and the thick tube portion (114a). Provided is a multitubular heat exchanger for which the inner tubes (114) are in sealed contact at the thick tube portions (114a) and held and integrated by the outer tube (117), so that a second fluid pass-through gap

(S) is formed between the outside of each inner tube (114) and the inside of the outer tube (117). The inner tube (114) is tapered at one side in the upper and lower direction of the tapered tube portion (114c), and its surface (bottom surface) to be on the downside when the inner tube (114) is used is provided as a longitudinal flat surface. Thus, the multitubular heat exchanger according to the present invention does not allow forming between the thick tube portion (114a) and the tapered tube portion (114c) a recess portion forming a condensed water pool in the heat exchanger when used.

Fig. 8





## EUROPEAN SEARCH REPORT

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The present search report has been drawn up for all claims			
1	Place of search The Hague	Date of completion of the search 24 January 2014	Examiner Delval, Stéphane
CATEGORY OF CITED DOCUMENTS		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	
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			

ANNEX TO THE EUROPEAN SEARCH REPORT  
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