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- (54) Title: RESIDENCE TIME PLATE

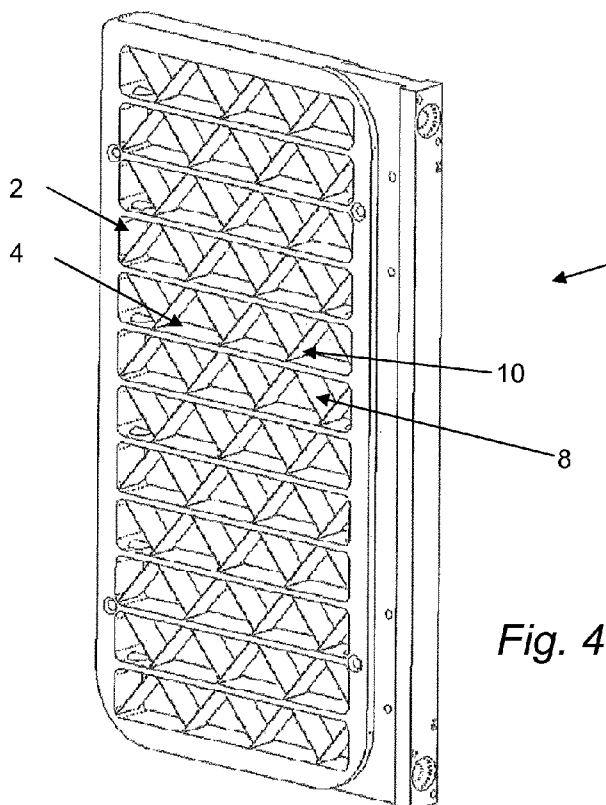


Fig. 4

(57) Abstract: The present invention relates to a residence time plate comprising a stack of at least two substantially parallel and elongated flow chambers arranged such that the elongated side of each flow chamber lies next to the elongated side of a neighboring flow chamber and is separated by said neighboring chamber by a separation wall. Each separation wall has at least one through hole forming a communication between two neighboring flow chambers, and the through holes are arranged in the separation walls on alternating sides of an imaginary central line drawn through the stack of flow chambers such that the flow direction in a flow chamber is along the extension of the flow chamber and opposite the flow direction of a neighboring chamber. Moreover, the residence time plate comprises at least one liquid inlet and at least one liquid outlet arranged such that liquid flowing from said inlet to said outlet passes through the stack of flow chambers. Further, at least one flow-path enhancing insert is arranged in at least one flow chamber and forming a number of insert flow passages in said flow chamber, wherein the insert flow passages are arranged such that liquid flowing in the flow chamber is directed through said insert flow passages, thereby forming a zigzag flow path along the flow direction of the flow chamber.

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