

Title (en)
HEAT EXCHANGER, IN PARTICULAR BLOCK-IN-SHELL HEATER WITH A SEPARATING UNIT FOR SEPARATING A GASEOUS PHASE FROM A LIQUID PHASE AND FOR DISTRIBUTING THE LIQUID PHASE

Title (de)
WÄRMEÜBERTRAGER, INSBESONDERE BLOCK-IN-SHELL-WÄRMEÜBERTRAGER MIT EINER SEPARIEREINHEIT ZUM SEPARIEREN EINER GASFÖRMIGEN PHASE VON EINER FLÜSSIGEN PHASE SOWIE ZUM VERTEILEN DER FLÜSSIGEN PHASE

Title (fr)
ÉCHANGEUR DE CHALEUR, EN PARTICULIER ÉCHANGEUR DE CHALEUR ENCAPSULÉ DOTÉ D'UNE UNITÉ DE SÉPARATION DESTINÉE À SÉPARER UNE PHASE GAZEUSE D'UNE PHASE LIQUIDE ET À DISTRIBUER LA PHASE LIQUIDE

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Abstract (en)
[origin: WO2016102047A1] The invention relates to a heat exchanger (1) for indirectly transferring heat between a first medium (4) and a second medium (4a), comprising a container (2) which has an inner chamber (I) for receiving the two-phase first medium (4), a plate heat exchanger (5) arranged inside the inner chamber (I) for indirectly transferring heat between the first medium (4) and the second medium (4a), wherein the inner chamber (I) is designed to receive the first medium (4) with a fill level (3) such that a liquid phase (38) of the first medium (4) forms a bath surrounding the plate heat exchanger (5), and an inlet (6) above the fill level (3) for introducing the first medium (4) into the inner chamber (I). According to the invention, a separating unit (8) forming a receiving chamber (7) is provided for separating the gaseous phase (39) from the liquid phase (38) of the first medium (4) in the inner chamber (I), and the separating unit (8) has at least one upward-directed receiving opening (9) for introducing the first medium (4) flowing out in the inner chamber (I) into the receiving chamber (7), and the upward-directed receiving opening (9) is arranged above the fill level (3), such that the gaseous phase (39) of the first medium (4) in the receiving chamber (7) can escape into the inner chamber (I) via the receiving opening (9).

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"The standards of the brazed aluminium plate-fin heat exchanger manufacturer's association ALPEMA STANDARDS- Complete Document; Revision / Edition: 3", ALPEMA STAND, ALUMINIUM PLATE-FIN HEAT EXCHANGER MANUFACTURER'S ASSOCIATION (ALPEMA), US, vol. Third Edition 2010 With Amendments May 2012, 1 January 2010 (2010-01-01), pages 1 - 84, XP008169329

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