

Title (en)
HEAT EXCHANGER COMPRISING MICROSTRUCTURE ELEMENTS AND SEPARATION UNIT COMPRISING SUCH A HEAT EXCHANGER

Title (de)
WÄRMETAUSCHER MIT MIKROSTRUKTURELEMENTEN UND TRENNVORRICHTUNG MIT SOLCH EINEM WÄRMETAUSCHER

Title (fr)
ÉCHANGEUR DE CHALEUR PRÉSENTANT DES ÉLÉMENTS DE MICROSTRUCTURE ET UNITÉ DE SÉPARATION COMPRENANT UN TEL ÉCHANGEUR DE CHALEUR

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Application
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Abstract (en)
[origin: WO2016166473A1] The invention relates to a heat exchanger comprising parallel plates and spacers arranged in parallel and defining i) rough primary channels (21) and ii) secondary channels arranged so as to exchange heat. Said heat exchanger comprises a primary liquid inlet to be fluidically connected to a primary liquid dispenser. Each rough primary channel (21) has the shape of a prism having a polygonal cross-section and consisting of a plurality of essentially flat faces. The primary channels comprise rough primary channels. Each rough primary channel (21) has microstructure elements (30) which are distributed along the entire length of the channel and have dimensions of between 1 µm and 300 µm.

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