

Title (en)
HEAT EXCHANGER WITH IMPROVED LIQUID/GAS MIXING APPARATUS

Title (de)
WÄRMETAUSCHER MIT VERBESSERTEM FLÜSSIG/GAS MISCHER

Title (fr)
ECHANGEUR DE CHALEUR AVEC DISPOSITIF MELANGEUR LIQUIDE/GAZ AMELIORE

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Application
EP 19718903 A 20190321

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Abstract (en)
[origin: WO2019180384A1] The invention relates to a heat exchanger (1) comprising a plurality of plates (2) arranged in parallel and in a longitudinal direction (z) so as to define a first series of passages (10) for channelling at least one first fluid (F1) and a second series of passages (20) for channelling at least one second fluid (F2) which is to be brought into a heat-exchanging arrangement with at least said first fluid (F1), a mixing device (3) being provided in said at least one passage (10) of the first series and comprising at least one first channel (31) for the flow of a first phase (61) of the fluid (F1) in the longitudinal direction (z), at least one second channel (32) for the flow of a second phase (62) of the fluid (F1), and a plurality of openings (34i, 34i+1, ...) establishing fluid connection between the first channel (31) and the second channel (32), said openings (34i, 34i+1, ...) occupying consecutive positions (zi, zi+1, ...) in the longitudinal direction (z). According to the invention, the distances between two consecutive positions (zi, zi+1, ...), measured parallel to the longitudinal direction (z), are variable.

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