

Title (en)
MULTIPATH PLATE-AND-SHELL HEAT EXCHANGER

Title (de)
MEHRWEGPLATTEN- UND MANTELWÄRMETAUSCHER

Title (fr)
ECHANGEUR DE CHALEUR À PLAQUES ET À CALANDRE À TRAJETS MULTIPLES

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Application
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Abstract (en)
[origin: EP4198437A1] The present invention relates to a plate-and-shell heat exchanger (100) comprising a stack of plate pairs (50, 60) positioned in a shell (20), where the stack of plate pairs (50, 60) comprises a plurality of plate pairs of a first type (50) and a plurality of plate pairs of a second type (60). Each plate pair (50, 60) comprises two heat transfer plates (10) being connected to each other and forming a cavity (11) there between, and comprising an inlet opening (13a, 13b) and an outlet opening (13'a, 13'b). First inner flow paths (12a) are formed through the first inlet openings (13a), the cavities (11) of the plate pairs of the first type (50) and the first outlets (13'a). Second inner flow paths (12b) are formed through the second inlet openings (13b), the cavities (11) of the plate pairs of the second type (60) and the second outlets (13'b). A third outer flow path (22) is defined within the shell and between plate pairs of the first type (50) and plate pairs of the second type (60).

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