

Title (en)

TUBE SHEET PROTECTION DEVICE AT THE HOT EXTREMITY OF A VERTICAL HEAT EXCHANGER

Publication

EP 0057643 B1 19840704 (FR)

Application

EP 82400166 A 19820129

Priority

FR 8101954 A 19810202

Abstract (en)

[origin: US4418748A] A heat exchanger comprising an outer casing closed at its hot and cool ends by two tube plates, a cluster of tubes which is connected to the tube plates to discharge into inlet and outlet collectors of a fluid flowing inside the tubes, and inlet and outlet tubings of a liquid flowing in the casing and around the tubes, wherein the exchanger comprises at its hot end a device for protecting the tube plate, such device comprising two plates united by a casing to define a first zone filled with such liquid in the static state forming a thermal screen, such plates being substantially parallel with the tube plate and a first one of such plates being disposed adjacent the tube plate, the protective device also comprising passages extending through such zone from one plate to another, and means for setting up a negative pressure between such first plate and the tube plates, to ensure that such liquid flows towards the tube plate inside such passages. Special application to heat exchangers for steam generators with liquid sodium primary fluid.

IPC 1-7

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IPC 8 full level

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CPC (source: EP US)

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Cited by

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