

Title (en)

WEB DESIGN AND ARRANGEMENT FOR REDUCING A RADIAL DISTRIBUTION FAULT IN A WOUND HEAT EXCHANGER

Title (de)

STEGDESIGN - UND ANORDNUNG ZUR VERRINGERUNG EINER RADIALEN FEHLVERTEILUNG IN EINEM GEWICKELTEN WÄRMEÜBERTRAGER

Title (fr)

CONCEPTION D'ENTRETOISE ET ENSEMBLE FORMANT ENTRETOISE SERVANT À RÉDUIRE UNE RÉPARTITION ERRONÉE RADIALE DANS UN ÉCHANGEUR DE CHALEUR ENROULÉ

Publication

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Application

EP 20719938 A 20200331

Priority

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Abstract (en)

[origin: WO2020207626A1] The invention relates to a heat exchanger (1) for the indirect transfer of heat between a first and at least one second medium (M, M'), having a jacket space (I) for receiving the first medium (M), a core pipe (20) arranged in the jacket space (I), a pipe bundle (15) arranged in the jacket space (I), which bundle comprises a plurality of pipes (10) which are each wound around the core pipe (20) such that the pipe bundle (15) has a plurality of pipe layers arranged on top of each other (100, 101, 102, 103) which each comprise at least one pipe (10), a pipe bundle gap (200, 201, 202, 203) being present between all the adjacent pipe layers (100, 101; 101, 102;...) and a plurality of spacers (30) being arranged in each pipe bundle gap (200, 201, 202, 203) to support the pipe layers (100, 101, 102, 103). According to the invention, the spacers (30) each have a thickness (D) in the radial direction (R) of the pipe bundle (15), the thicknesses (D) of the spacers (30) of a first pipe bundle gap (200) each being greater than the thicknesses (D) of the spacers of a second pipe bundle gap (203), which lies further to the outside in the radial direction (R) of the pipe bundle (15) than the first pipe bundle gap (200).

IPC 8 full level

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Citation (search report)

See references of WO 2020207626A1

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