

Title (en)

SEPARATING DEVICE FOR WOUND HEAT EXCHANGERS FOR SEPARATING A GASEOUS PHASE FROM A LIQUID PHASE OF A TWO-PHASE MEDIUM CONVEYED OVER THE SHEATH

Title (de)

TRENNEINRICHTUNG FÜR GEWICKELTE WÄRMEÜBERTRAGER ZUM TRENNEN EINER GASFÖRMIGEN PHASE VON EINER FLÜSSIGEN PHASE EINES ZWEIPHASIGEN MANTELSEITIG GEFÜHRTEN MEDIUMS

Title (fr)

DISPOSITIF DE SEPARATION POUR UN FLUIDE CALOPORTEUR ENROULE DESTINE A SEPARER UNE PHASE GAZEUSE D'UNE PHASE LIQUIDE D'UN MILIEU A DEUX PHASES ACHEMINE COTE ENVELOPPE

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Application

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Abstract (en)

[origin: WO2017157535A1] Coiled heat exchanger (1) for the indirect transfer of heat between a two-phase first medium (M) and a second medium (M'), having a jacket (5) which surrounds a jacket space (6) and extends along a longitudinal axis (z), an inlet (7) for admitting the two-phase first medium (M) into the jacket space (6), a tube bundle (3) arranged in the jacket space (6) and having multiple tubes (30) for accommodating the second medium (M'), which tubes are coiled helically around the longitudinal axis (z), and a separating device (2) for separating a gaseous phase (G) from a liquid phase (F) of the two-phase first medium (M). According to the invention, it is provided that the separating device (2) has a tray (4) arranged above the tube bundle (3) for collecting the liquid phase (F), wherein the tray (4) for separating the two phases (F, G) has a multiplicity of chimneys (50, 70), wherein the respective chimney (50, 70) stands proud of the tray (4) on a side of the tray (4) facing away from the tube bundle (3), is covered by a cap (52, 72) and opens into a through-opening (40) in the tray (4), there being further provided, between the respective cap (52, 72) and an upper end of the respective chimney (50, 70), an inlet opening (51, 71) via which the gaseous phase (G) can flow into the respective chimney (50, 70). The invention also relates to a corresponding method for operating the heat exchanger.

IPC 8 full level

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