

Title (en)

PLATE HEAT EXCHANGER CAPACITOR EVAPORATOR AND METHOD FOR CRYOGENIC DECOMPOSITION OF AIR

Title (de)

PLATTENWÄRMETAUSCHER-KONDENSATORVERDAMPFER UND VERFAHREN ZUR TIEFTEMPERATURZERLEGUNG VON LUFT

Title (fr)

ÉVAPORATEUR-CONDENSATEUR-ÉCHANGEUR THERMIQUE À PLAQUES ET PROCÉDÉ CRYOGÉNIQUE DE SÉPARATION D'AIR

Publication

**EP 3159648 B1 20180919 (DE)**

Application

**EP 15002975 A 20151020**

Priority

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Abstract (en)

[origin: CN106595222A] The present invention relates to a plate heat exchanger-capacitor evaporator with a heat exchanger block (10), and the plate heat exchanger-capacitor evaporator has a plurality of heat exchanger plates (20, 30) with a liquid guide structure (21, 31) ; the heat exchanger block (10) has a first outer surface (11), a second outer surface (12) opposite the first outer surface (11), a third outer surface (13) and a fourth outer surface (14) opposite to the third outer surface (13); the liquid guide structure (21) of the first heat exchanger plate (20) has first and second openings (211, 212) which are not covered by a liquid introduction pipe and a liquid collection pipe; the liquid guide structure (31) of the second heat exchanger plate (31) extends between a liquid introduction pipe (40) arranged on the heat exchanger block (10) and a liquid collection pipe (50) arranged on the heat exchanger block (10); the liquid introduction pipe (40) is arranged on the first outer surface (11); the first opening (211) of the liquid guide structure (21) of the first heat exchanger plate (20) is either arranged in a region of the first outer surface (11) which is not covered by the liquid introduction pipe (40), or is arranged on a first area of the third outer surface (13) and a first area of the fourth outer surface (14).

IPC 8 full level

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Cited by

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