

Title (en)
EVAPORATOR

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Application
EP 84107488 A 19840628

Priority
DE 3327179 A 19830728

Abstract (en)
[origin: ES279746U] An evaporator apparatus comprises an evaporator assembly to which a coolant is supplied by an expansion valve and a flow divider. The connecting means between the expansion valve and the flow divider is provided with at least one bend. The bend causes a non-homogeneous coolant flow at the flow divider, resulting in an uneven distribution of gaseous and liquid coolant to the individual evaporator pipe sets. A mixing element, provided directly upstream of the flow divider, has a flow cross-section which expands in the direction of the coolant flow, resulting in a brisk mixing of the gaseous and liquid coolant phases to provide a homogeneous mixture. Preferred embodiments of this mixing element include a cylindrical mixing cell having a preferred inlet diameter/cell diameter ratio, a tapered insert which first decreases and then increases the flow cross-section, and a simple screen. The two latter embodiments may be installed in pipes which have constant diameters.

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F25B 39/02

IPC 8 full level
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CPC (source: EP US)
F25B 39/028 (2013.01 - EP US); **F25B 41/45** (2021.01 - EP); **F25B 2500/01** (2013.01 - EP US)

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AT396834B; DE19824881A1; EP0566899A1; DE19515527A1

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