

Title (en)

Device for evaporating a liquid by heat exchange with a second fluid and air distillation unit comprising such a device.

Title (de)

Apparat zum Verdampfen einer Flüssigkeit durch Wärmeaustausch mit einem zweiten Fluid und Luftdestillationsanlage mit einem solchen Apparat.

Title (fr)

Dispositif pour vaporiser un liquide par échange de chaleur avec un deuxième fluide et installation de distillation d'air comprenant un tel dispositif.

Publication

EP 0130122 A1 19850102 (FR)

Application

EP 84401284 A 19840621

Priority

FR 8310472 A 19830624

Abstract (en)

[origin: ES8600489A1] Liquid oxygen of a low pressure column forms a bath 5 at the top of a heat exchanger 2 of the type having plates defining vertical passages 17, 18. This liquid is predistributed along every other passage 17 by a series of apertures 27 formed for example in the plates, and then is uniformly distributed in a fine manner in the same passages by a packing 24 so as to form a continuous running liquid film. The gaseous nitrogen of a medium pressure column is introduced into the remaining passages 18 and condensed by heat exchange with the oxygen which is vaporized.

Abstract (fr)

L'oxygène liquide de la colonne basse pression forme un bain (5) au sommet d'un échangeur (2) du type à plaques à passages verticaux (17, 18). Ce liquide est pré-distribué le long d'un passage (17) sur deux au moyen d'une série de trous (27) ménagés par exemple dans les plaques, puis est uniformément distribué de façon fine dans les mêmes passages par un garnissage (24), de façon à former un film liquide ruisselant continu. L'azote gazeux de la colonne moyenne pression est introduit dans les passages (18) restants et est condensé par échange de chaleur avec l'oxygène, qui est vaporisé.

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IPC 8 full level

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CPC (source: EP KR US)

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Citation (search report)

- [A] FR 2008887 A1 19700130 - KOBÉ STEEL LTD
- [A] FR 2017807 A1 19700522 - KOBÉ STEEL LTD
- [A] FR 2003749 A1 19691114 - DEGGENDOR WERFT EISENBAU
- [A] FR 2154352 A1 19730511 - AIR LIQUIDE
- [AD] FR 2431103 A1 19800208 - AIR LIQUIDE [FR]

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