

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

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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.

IPC 1-7

F25J 3/00; **F25J 3/04**; **F28F 27/02**

IPC 8 full level

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CPC (source: EP KR US)

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Cited by

FR2786858A1; EP0699884A1; WO2016166473A1; WO2016124748A1; FR2665755A1; EP3653983A1; EP1008826A1; EP0303492A3; US5014773A; FR2774755A1; EP0695921A1; EP0501471A3; EP2508830A1; FR3035202A1; CN107660265A; EP0566435A1; FR2690231A1; US5321954A; EP0546947A1; FR2685071A1; US5333683A; CN102792116A; FR2957142A1; CN102792117A; CN105066745A; FR3032521A1; CN107208986A; US6189338B1; WO2011110772A3; EP3462119B1

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