

Title (en)

Process for separating a gaseous mixture by cryogenic distillation

Title (de)

Verfahren zur Trennung eines Gasgemisches durch kryogene Destillation

Title (fr)

Procédé de séparation d'un mélange gazeux par distillation cryogénique

Publication

EP 0718576 A1 19960626 (FR)

Application

EP 95402924 A 19951222

Priority

FR 9415608 A 19941223

Abstract (en)

O and N are sepd. from air by cryogenic distn. in a double column (II), the incoming air from compressor (1) being precooled by heat exchange (3) with water and then by heat exchange (5) with cool gas before passing via CO₂ absorbers (7) and main heat exchanger (9) to column (11). Valve (15) controls the flow of gas (13 A) to heat exchanger (5), which is used only when the temp. of water in heat exchanger (3) is too high to cool the air sufficiently on its own e.g. in summer. The gas (13 A) may be fairly pure N drawn from column (11), or recycled air. Claims are directed to process and appts.

Abstract (fr)

Afin de prérefroidir un débit de gaz à distiller, avant une étape d'épuration, on l'envoie dans un échangeur (5) où il se refroidit contre un débit de fluide frigorigène (13B). Ce fluide frigorigène est détendu au moins en partie avant de refroidir le gaz non épuré et peut être une fraction du gaz à distiller ou un produit de la distillation. Il est préférentiellement un gaz de cycle du système. Cette disposition permet de supprimer un groupe frigorifique.

IPC 1-7

F25J 3/04

IPC 8 full level

F25J 3/04 (2006.01); **F25J 3/00** (2006.01); **F25J 3/02** (2006.01); **F25J 5/00** (2006.01)

CPC (source: EP US)

F25J 3/04157 (2013.01 - EP US); **F25J 3/04187** (2013.01 - EP US); **F25J 3/04254** (2013.01 - EP US); **F25J 3/04284** (2013.01 - EP US); **F25J 3/04345** (2013.01 - EP US); **F25J 3/04357** (2013.01 - EP US); **F25J 3/044** (2013.01 - EP US); **F25J 3/04787** (2013.01 - EP US); **F25J 2200/72** (2013.01 - EP US); **F25J 2210/42** (2013.01 - EP US); **F25J 2245/40** (2013.01 - EP US); **F25J 2245/42** (2013.01 - EP US)

Citation (applicant)

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Citation (search report)

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Designated contracting state (EPC)

DE ES GB IT

DOCDB simple family (publication)

EP 0718576 A1 19960626; **EP 0718576 B1 19990901**; CA 2165916 A1 19960624; CN 1133964 A 19961023; DE 69511833 D1 19991007; DE 69511833 T2 20000518; ES 2138172 T3 20000101; FR 2728663 A1 19960628; FR 2728663 B1 19970124; JP H08254389 A 19961001; US 5651271 A 19970729

DOCDB simple family (application)

EP 95402924 A 19951222; CA 2165916 A 19951221; CN 95113135 A 19951222; DE 69511833 T 19951222; ES 95402924 T 19951222; FR 9415608 A 19941223; JP 33550795 A 19951222; US 57412895 A 19951218