

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 B1 19990901 (FR)**

Application

**EP 95402924 A 19951222**

Priority

FR 9415608 A 19941223

Abstract (en)

[origin: EP0718576A1] O and N are sepd. from air by cryogenic distrn. 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 CO<sub>2</sub> 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.

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)

Cited by

CN103438665A; EP1035391A1; FR2790823A1; EP0829691A1; FR2753394A1; US5921106A

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