

Title (en)

Air distillation process and plant for producing at least a high pressure gaseous product and at least a liquid.

Title (de)

Lufttrennungsverfahren und Anlage zur Herstellung von wenigstens ein Druckgasprodukt und von wenigstens eine Flüssigkeit.

Title (fr)

Procédé et installation de production d'au moins un produit gazeux sous pression et d'au moins un liquide par distillation d'air.

Publication

**EP 0606027 A1 19940713 (FR)**

Application

**EP 93402907 A 19931201**

Priority

FR 9300035 A 19930105

Abstract (en)

In this method, a single distillation column (9) fitted with a nitrogen refrigeration cycle is used. Liquid oxygen and/or liquid nitrogen coming from the tank of the column are pumped (14, 15) to a high production pressure and are vaporised by condensation of supercompressed air. Simultaneously, liquid oxygen and/or liquid nitrogen are produced. The installation may include a column (10) for production of impure argon, coupled to the single column. <IMAGE>

Abstract (fr)

Dans ce procédé, on utilise une simple colonne de distillation (9) munie d'un cycle frigorifique à azote. De l'oxygène liquide et/ou de l'azote liquide, en provenance de la cuve de la colonne, sont portés par pompe (14, 15) à une haute pression de production, et sont vaporisés par condensation d'air surpressé. Simultanément, de l'oxygène liquide et/ou de l'azote liquide sont produits. L'installation peut comporter une colonne de production d'argon impur (10) couplée à la simple colonne <IMAGE>

IPC 1-7

**F25J 3/04**

IPC 8 full level

**F25J 3/04** (2006.01)

CPC (source: EP US)

**F25J 3/04084** (2013.01 - EP US); **F25J 3/0409** (2013.01 - EP US); **F25J 3/042** (2013.01 - EP); **F25J 3/04296** (2013.01 - EP US); **F25J 3/04351** (2013.01 - EP US); **F25J 3/04357** (2013.01 - EP US); **F25J 3/04393** (2013.01 - EP US); **F25J 3/044** (2013.01 - EP US); **F25J 3/0466** (2013.01 - EP US); **F25J 2200/76** (2013.01 - EP US)

Citation (search report)

- [A] GB 2252616 A 19920812 - BOC GROUP PLC [GB]
- [A] EP 0413631 A1 19910220 - AIR LIQUIDE [FR], et al
- [A] EP 0286314 A1 19881012 - BOC GROUP PLC [GB]

Cited by

EP2541175A3; FR2767317A1; US6110980A; AU739325B2; US6339939B1

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

**EP 0606027 A1 19940713**; **EP 0606027 B1 19961009**; CA 2112831 A1 19940706; CN 1093797 A 19941019; DE 69305317 D1 19961114; DE 69305317 T2 19970403; ES 2093946 T3 19970101; FR 2700205 A1 19940708; FR 2700205 B1 19950210; JP H06241649 A 19940902; US 5428962 A 19950704

DOCDB simple family (application)

**EP 93402907 A 19931201**; CA 2112831 A 19940105; CN 94101920 A 19940104; DE 69305317 T 19931201; ES 93402907 T 19931201; FR 9300035 A 19930105; JP 33558593 A 19931228; US 16998493 A 19931216