

Title (en)

Process and plant for distilling air for obtaining gaseous oxygen in variable quantities.

Title (de)

Lufttrennungsverfahren und Anlage zur variablen Herstellung von gasförmigem Sauerstoff.

Title (fr)

Procédé et installation de distillation d'air en régime variable de production d'oxygène gazeux.

Publication

EP 0489617 A1 19920610 (FR)

Application

EP 91403174 A 19911125

Priority

FR 9015294 A 19901206

Abstract (en)

[origin: JPH04283390A] PURPOSE: To provide a method which improves average yield of argon in equipment of producing gaseous oxygen under variable operating condition employing an alternating system. CONSTITUTION: In this alternating system, when the demand for oxygen is below a mean value, additional liquid oxygen is produced by introducing compressed oxygen in a gaseous form into a heat exchange line 7 of equipment. This enables reducing of liquid nitrogen injected into double columns 1 and 2 in a corresponding manner.

Abstract (fr)

Ce procédé est du type à bascule. Lorsque la demande d'oxygène est inférieure à la valeur moyenne, on produit de l'oxygène liquide additionnel en introduisant de l'oxygène comprimé, à l'état gazeux, dans la ligne d'échange thermique (7) de l'installation, le débit d'azote liquide injecté dans la double colonne étant réduit de façon correspondante. On peut ainsi augmenter le rendement moyen d'extraction d'argon de l'installation. <IMAGE>

IPC 1-7

F25J 3/04

IPC 8 full level

F25J 3/04 (2006.01)

CPC (source: EP US)

F25J 3/042 (2013.01 - EP US); **F25J 3/04303** (2013.01 - EP US); **F25J 3/04363** (2013.01 - EP US); **F25J 3/04412** (2013.01 - EP US); **F25J 3/04509** (2013.01 - EP US); **F25J 3/04678** (2013.01 - EP US); **F25J 2235/42** (2013.01 - EP US); **F25J 2235/50** (2013.01 - EP US); **Y10S 62/913** (2013.01 - EP US); **Y10S 62/939** (2013.01 - EP US)

Citation (search report)

- [A] EP 0399197 A1 19901128 - LINDE AG [DE]
- [A] LINDE BERICHT E AUS TECHNIK UND WISSENSCHAFT. no. 54, 1984, WIESBADEN DE pages 18 - 20; W.ROHDE: 'Luftzerlegungsanlage mit Wechselspeicherung für variable Sauerstoff'

Cited by

FR2751737A1; US6062044A; WO9804877A1

Designated contracting state (EPC)

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EP 0489617 A1 19920610; **EP 0489617 B1 19931222**; AU 643091 B2 19931104; AU 8833691 A 19920611; CA 2056915 A1 19920607; CA 2056915 C 20020507; DE 69100838 D1 19940203; DE 69100838 T2 19940428; ES 2047389 T3 19940216; FR 2670278 A1 19920612; FR 2670278 B1 19930122; JP 3256250 B2 20020212; JP H04283390 A 19921008; US 5209070 A 19930511; ZA 919570 B 19920826

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