

Title (en)

Process and device for the production of argon by cryogenic separation of air

Title (de)

Verfahren und Vorrichtung zur Gewinnung von Argon durch Tieftemperaturzerlegung von Luft

Title (fr)

Procédé et dispositif pour la production d'argon par séparation cryogénique d'air

Publication

EP 1760415 A1 20070307 (EN)

Application

EP 05425609 A 20050831

Priority

EP 05425609 A 20050831

Abstract (en)

A process for producing argon by low temperature air fractionation, comprising the following steps: feeding a rectification column of at least one section (12,14) with said air (10); extracting from said rectification column an argon-containing fraction (18) and feeding it to a crude argon column (16); extracting from said crude argon column an argon-containing fraction (22) and feeding it to a nitrogen removal column (24); and extracting from said nitrogen removal column an argon-containing fraction (30) and feeding it to a pure argon column (32).

IPC 8 full level

F25J 3/04 (2006.01)

CPC (source: EP)

F25J 3/04412 (2013.01); **F25J 3/04678** (2013.01); **F25J 3/04709** (2013.01); **F25J 3/04721** (2013.01); **F25J 3/04727** (2013.01); **F25J 3/04969** (2013.01); **F25J 2200/50** (2013.01); **F25J 2245/58** (2013.01)

Citation (search report)

- [A] DE 821951 C 19511122 - LINDE EISMASCH AG
- [A] DE 19743731 A1 19980409 - LINDE AG [DE]
- [A] US 5970743 A 19991026 - HERRON DONN MICHAEL [US], et al
- [X] PATENT ABSTRACTS OF JAPAN vol. 1995, no. 06 31 July 1995 (1995-07-31)
- [X] PATENT ABSTRACTS OF JAPAN vol. 1995, no. 08 29 September 1995 (1995-09-29)

Cited by

CN113739515A; WO2014169989A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1760415 A1 20070307

DOCDB simple family (application)

EP 05425609 A 20050831