

Title (en)

DEVICE AND METHOD FOR SEPARATING AIR BY CRYOGENIC DISTILLATION

Title (de)

VORRICHTUNG UND VERFAHREN ZUR ABSCHIEDUNG VON LUFT DURCH KRYOGENE DESTILLATION

Title (fr)

APPAREIL ET PROCEDE DE SEPARATION D'AIR PAR DISTILLATION CRYOGENIQUE

Publication

EP 2686628 B1 20210113 (FR)

Application

EP 12714763 A 20120309

Priority

- FR 1152272 A 20110318
- FR 2012050500 W 20120309

Abstract (en)

[origin: WO2012127148A2] Device for separating air comprises a pipe for withdrawing liquid oxygen from the low-pressure column and for sending it to a first pump (39), a pipe for sending liquid oxygen that has been pressurized to a pressure of below 9 bar abs from the first pump to a vaporizer (41), a pipe for sending gaseous oxygen from the vaporizer to a main exchanger (21) where it is heated up, a pipe for sending liquid oxygen for purging from the vaporizer to a second pump (63) to pressurize it and a pipe for sending the pressurized oxygen from the second pump to an exchanger where it vaporizes to form gaseous oxygen.

IPC 8 full level

F25J 3/04 (2006.01)

CPC (source: EP US)

F25J 3/0228 (2013.01 - US); **F25J 3/0409** (2013.01 - EP US); **F25J 3/04103** (2013.01 - EP US); **F25J 3/04206** (2013.01 - EP US); **F25J 3/04218** (2013.01 - EP US); **F25J 3/04303** (2013.01 - EP US); **F25J 3/04412** (2013.01 - EP US); **F25J 3/04418** (2013.01 - EP US); **F25J 3/04824** (2013.01 - EP US); **F25J 3/04836** (2013.01 - EP US); **F25J 3/0486** (2013.01 - EP US); **F25J 2200/54** (2013.01 - EP US); **F25J 2215/50** (2013.01 - EP US); **F25J 2250/40** (2013.01 - EP US); **F25J 2250/50** (2013.01 - EP US); **F25J 2290/62** (2013.01 - EP US)

Citation (examination)

- US 3754406 A 19730828 - ALLAM R
- US 3327489 A 19670627 - GAUMER JR LEE S

Designated contracting state (EPC)

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DOCDB simple family (publication)

FR 2972794 A1 20120921; **FR 2972794 B1 20151106**; AU 2012230171 A1 20131010; AU 2012230171 B2 20170330; CA 2828716 A1 20120927; CA 2828716 C 20200225; CN 104067079 A 20140924; EP 2686628 A2 20140122; EP 2686628 B1 20210113; ES 2859549 T3 20211004; US 2013340476 A1 20131226; WO 2012127148 A2 20120927; WO 2012127148 A3 20141204; ZA 201306723 B 20150325

DOCDB simple family (application)

FR 1152272 A 20110318; AU 2012230171 A 20120309; CA 2828716 A 20120309; CN 201280013722 A 20120309; EP 12714763 A 20120309; ES 12714763 T 20120309; FR 2012050500 W 20120309; US 201214003902 A 20120309; ZA 201306723 A 20130906