

Title (en)

METHOD AND INSTALLATION FOR SUPPLYING HIGHLY PURE OXYGEN BY CRYOGENIC DISTILLATION OF AIR

Title (de)

VERFAHREN UND ANLAGE ZUR ZUFUHR VON HOCHREINEM SAUERSTOFF DURCH KRYOGENE DESTILLATION VON LUFT

Title (fr)

PROCEDE ET INSTALLATION DE FOURNITURE D'OXYGÈNE À HAUTE PURETE PAR DISTILLATION CRYOGNIQUE D'AIR

Publication

EP 1690054 A1 20060816 (FR)

Application

EP 04805825 A 20041110

Priority

- FR 2004050582 W 20041110
- FR 0350818 A 20031110

Abstract (en)

[origin: WO2005045340A1] The invention relates a method for supplying highly pure oxygen by cryogenic distillation of air from an installation comprising a first (1) and a second (2) air separating apparatus. According to the invention: the first air separating apparatus has a medium pressure column, a low pressure column thermally connected to the medium pressure column, and has a mixing column in which air to be distilled is fed to the medium pressure column; liquids enriched with oxygen and with nitrogen are fed from the medium pressure column to the low pressure column; according to a first operation of the apparatus, a flow of oxygen-enriched liquid coming from the low pressure column is fed to the top of the mixing column; a flow of low-purity oxygen is drawn off from the top of the mixing column and at least a portion (3) thereof is fed to a first consumer unit (5), and; the second apparatus (2) supplies highly pure oxygen (8) to a second consumer unit (9), whereas according to a second operation, the flow of low-purity oxygen drawn off from the top of the mixing column is reduced in the first apparatus; a flow of highly pure oxygen is drawn off from the vessel of the low pressure column of the first apparatus and is fed (11) to at least the second consumer unit (9), and; the second apparatus (2) does not supply highly pure oxygen to the second consumer unit.

IPC 8 full level

F25J 3/04 (2006.01)

CPC (source: EP US)

F25J 3/04303 (2013.01 - EP US); **F25J 3/04412** (2013.01 - EP US); **F25J 3/04466** (2013.01 - EP US); **F25J 3/04557** (2013.01 - EP US); **F25J 3/04593** (2013.01 - EP US); **F25J 3/046** (2013.01 - EP US); **F25J 3/04606** (2013.01 - EP US); **F25J 3/04812** (2013.01 - EP US); **F25J 3/04824** (2013.01 - EP US); **F25J 3/04951** (2013.01 - EP US); **F25J 2200/06** (2013.01 - EP US); **F25J 2215/02** (2013.01 - EP US); **F25J 2215/52** (2013.01 - EP US); **F25J 2235/50** (2013.01 - EP US)

Citation (search report)

See references of WO 2005045340A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

FR 2862128 A1 20050513; **FR 2862128 B1 20060106**; BR PI0416372 A 20070221; CN 100538234 C 20090909; CN 1878998 A 20061213; EP 1690054 A1 20060816; JP 2007516405 A 20070621; RU 2006120410 A 20071220; RU 2354902 C2 20090510; US 2007221492 A1 20070927; WO 2005045340 A1 20050519

DOCDB simple family (application)

FR 0350818 A 20031110; BR PI0416372 A 20041110; CN 200480033074 A 20041110; EP 04805825 A 20041110; FR 2004050582 W 20041110; JP 2006538912 A 20041110; RU 2006120410 A 20041110; US 57788504 A 20041110