

Title (en)

METHOD AND APPARATUS FOR SEPARATING AIR BY CRYOGENIC DISTILLATION

Title (de)

VERFAHREN UND VORRICHTUNG ZUR LUFTTRENNUNG DURCH KRYOGENE DESTILLATION

Title (fr)

PROCEDE ET APPAREIL DE SEPARATION D'AIR PAR DISTILLATION CRYOGENIQUE

Publication

**EP 2569584 A2 20130320 (FR)**

Application

**EP 11717684 A 20110325**

Priority

- FR 1053616 A 20100510
- FR 2011050647 W 20110325

Abstract (en)

[origin: WO2011141652A2] In a method for the cryogenic distillation of air to produce gaseous oxygen with a purity of between 75 and 95 mol% and a pressure lower than 5 bar abs with a triple column comprising a high-pressure column (5), a medium-pressure column (3) and a low-pressure column (7), the medium-pressure column being wholly or partially thermally coupled to the low-pressure column by means of a first dephlegmator, air being sent to the medium-pressure column, a vessel liquid is sent from the high pressure column to the low-pressure column and/or to the top of the medium-pressure column, a head gas is sent from the medium-pressure column to the bottom of the high-pressure column via a compressor, a vessel liquid from the high-pressure column is sent to the top of the low-pressure column, a gas is withdrawn from the top of the low-pressure column and a fluid containing between 75 and 95 mol% of oxygen is withdrawn from the bottom of the low-pressure column, and the high-pressure column is also wholly or partially thermally coupled to the low-pressure column by means of a second dephlegmator.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2011141652A2

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