Title (en)

APPARATUS AND METHOD FOR SEPARATING AIR BY CRYOGENIC DISTILLATION

Title (de)

VORRICHTUNG UND VERFAHREN ZUR LUFTTRENNUNG DURCH KRYOGENE DESTILLATION

Title (fr)

APPAREIL ET PROCÉDÉ DE SÉPARATION D'AIR PAR DISTILLATION CRYOGÉNIQUE

Publication

EP 2279385 B1 20120222 (FR)

Application

EP 09742279 A 20090408

Priority

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• FR 0852727 A 20080423

Abstract (en)

[origin: WO2009136081A2] In a method for separating air by cryogenic distillation in a double column comprising a medium-pressure column (20) and a low-pressure column (21), cooled and purified compressed gaseous air (1) is sent to a first level of the medium-pressure column, cooled and purified compressed liquid air (3) is sent to a second level of the medium-pressure column, a liquid (5) enriched in oxygen, krypton and xenon is tapped from the bottom of the medium-pressure column, a liquid (6) is tapped from the medium-pressure column at a level somewhere between the first and second levels, and sent to the low-pressure column, the liquid enriched in oxygen, krypton and xenon is partially vaporized to form an intermediate gas and an intermediate liquid, a first liquid stream (10) rich in oxygen is tapped from the low-pressure column, a second liquid stream (11) rich in oxygen is tapped from the low-pressure column at a level lower than the intermediate level and the intermediate liquid is sent from the vaporizer to the low-pressure column at an intermediate level of the low-pressure column or is mixed with the second oxygen-rich liquid stream.

IPC 8 full level

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CPC (source: EP US)

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