

Title (en)

Device and process for air separation by cryogenic distillation

Title (de)

Vorrichtung und Verfahren zur Luftzerlegung durch Tieftemperaturrektifikation

Title (fr)

Appareil et procédé de séparation d'air par distillation cryogénique

Publication

**EP 1063485 B1 20050406 (FR)**

Application

**EP 00401768 A 20000621**

Priority

FR 9907931 A 19990622

Abstract (en)

[origin: EP1063485A1] An air separation plant has a mixing column and at least one double column with a low pressure connected to a mid-pressure column via a vaporizer-condenser. A second vaporizer-condenser vaporizes a liquid containing 22 - 70 mol% oxygen received from the low pressure column and partly condenses air to be supplied to the double column. An Independent claim is included for the following: (a) Air separation as above. Preferred Features: Untreated air is supplied direct to the bottom of the low pressure column. A nitrogen rich gas leaves the top of the mid-pressure column. Liquid from the bottom of the mid-pressure column goes partly to the second vaporizer-condenser and partly to a first level in the mid-pressure column. The vaporized liquid from the second vaporizer-condenser goes to a relatively lower level in the mid-pressure column.

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**F25J 3/04**

IPC 8 full level

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