

Title (en)

Process and apparatus for the separation of air by cryogenic distillation

Title (de)

Verfahren und Vorrichtung zur Zerlegung von Luft durch Tieftemperaturdestillation

Title (fr)

Procédé et installation pour la séparation d'air par distillation cryogénique

Publication

EP 1338856 A2 20030827 (EN)

Application

EP 03075304 A 20030131

Priority

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- US 41600902 P 20021004

Abstract (en)

Nitrogen and/or oxygen are produced by cryogenic distillation of air in an air separation unit comprising at least a medium pressure column (24) and a low pressure column (23) in which air (7,9) is sent to at least the medium pressure column, an oxygen enriched liquid (11) and a nitrogen enriched liquid (12) are removed from the medium pressure column, at least part of the nitrogen enriched liquid (12) is expanded to produce a two phase nitrogen enriched fluid (15), at least part of the expanded nitrogen enriched fluid containing at least 3,5 % gas, preferably at least 4 % gas is sent into the low pressure column and oxygen rich fluid (16) and nitrogen rich fluid (20) are removed from the low pressure column. <IMAGE>

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