

Title (en)

Process and device for cryogenic air separation

Title (de)

Verfahren und Vorrichtung zur Tieftemperaturzerlegung von Luft

Title (fr)

Procédé et dispositif pour la séparation cryogénique des gaz de l'air

Publication

EP 1094286 B1 20050615 (DE)

Application

EP 00119941 A 20000913

Priority

- EP 00119941 A 20000913
- DE 19950570 A 19991020
- EP 00102564 A 20000207

Abstract (en)

[origin: EP1094286A1] The cryogenic separation of air with a rectifier system for separating nitrogen and oxygen incorporates a pressure column (2), a low pressure column (3) and a condenser-evaporator system (101,102,103) for heating the low pressure column. The condenser-evaporator system has a first and second section. The first section has a pipe for introducing compacted and pre-cleaned circulating air (1) into the pressure column; A first oxygen-rich liquid (6) is conveyed to, and returned from, the evaporation passages. The second section conveys a second oxygen-rich liquid (12,13) from the evaporation passages

IPC 1-7

F25J 3/00; **F25J 3/04**

IPC 8 full level

F25J 3/00 (2006.01); **F25J 3/04** (2006.01)

CPC (source: EP)

F25J 3/0409 (2013.01); **F25J 3/04412** (2013.01); **F25J 3/04878** (2013.01); **F25J 3/04884** (2013.01); **F25J 3/04896** (2013.01); **F25J 5/005** (2013.01); **F25J 2235/42** (2013.01); **F25J 2235/50** (2013.01); **F25J 2250/02** (2013.01); **F25J 2250/04** (2013.01); **F25J 2250/10** (2013.01); **F25J 2250/20** (2013.01)

Cited by

EP3910274A1; EP1243882A1; EP1243881A1; US6530242B2; US6564581B2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 1094286 A1 20010425; **EP 1094286 B1 20050615**; AT E298070 T1 20050715; DE 50010552 D1 20050721; ES 2243182 T3 20051201

DOCDB simple family (application)

EP 00119941 A 20000913; AT 00119941 T 20000913; DE 50010552 T 20000913; ES 00119941 T 20000913