

## Title (en)

AIR-SEPARATING DEVICE USING STORAGE OF A PRODUCT GAS IN LIQUEFIED FORM

## Publication

**EP 0250390 A3 19880413 (DE)**

## Application

**EP 87890097 A 19870513**

## Priority

AT 129186 A 19860514

## Abstract (en)

[origin: EP0250390A2] In a device for separating air, in particular using a low-temperature rectification process, in which the air is condensed, cooled and expanded and/or cleaned with molecular sieves (10) and oxygen and nitrogen, as well as possibly noble gases, are discharged separately via product gas lines, there is connected to a product gas line (30) at least one branch line (31), which is led via a heat exchanger (9). Furthermore, at least two accumulators (7, 12) are provided for two different liquefied gases, and the product branched off from the product gas line (30) is liquefied by cooling and stored, the cooling taking place in the heat exchanger (9) by means of the respectively other liquefied gas, and at least one return line (32) being provided between an accumulator (7) for liquefied product gas and the product gas line (30), as a result of which the advantages of alternating accumulator operation can be achieved. Preferably, a branch line (33) of the product gas line (30) is led via an expansion turbine (18).  
<IMAGE>

## IPC 1-7

**F25J 3/04**

## IPC 8 full level

**F25J 3/04** (2006.01)

## CPC (source: EP)

**F25J 3/04084** (2013.01); **F25J 3/0409** (2013.01); **F25J 3/0429** (2013.01); **F25J 3/04309** (2013.01); **F25J 3/04363** (2013.01); **F25J 3/04503** (2013.01); **F25J 3/04969** (2013.01); **F25J 2215/40** (2013.01)

## Citation (search report)

- [X] FR 1275951 A 19611110 - BRITISH OXYGEN CO LTD
- [X] GB 1178006 A 19700114 - AIR LIQUIDE [FR]
- [A] DE 1250848 B
- [A] CHEMICAL ABSTRACTS, Band 94, Nr. 14, 6. April 1981, Seiten 146,147, Zusammenfassung Nr. 105821n, Columbus, Ohio, US; & SU-A-777 372 (L.P. DANILENKO et al.) 07-11-1980

## Cited by

FR2996909A1; EP1020695A1; EP0848220A1; FR2757282A1; US5941098A; WO2013185783A1

## Designated contracting state (EPC)

BE CH DE FR GB IT LI LU NL SE

## DOCDB simple family (publication)

**EP 0250390 A2 19871223; EP 0250390 A3 19880413; AT 387454 B 19890125; AT A129186 A 19880615**

## DOCDB simple family (application)

**EP 87890097 A 19870513; AT 129186 A 19860514**