

Title (en)

Process and apparatus for the production of oxygen by low temperature air separation

Title (de)

Verfahren und Vorrichtung zur Erzeugung von Sauerstoff durch Tieftemperatur-Zerlegung von Luft

Title (fr)

Procédé et appareil de production d'oxygène par séparation d'air cryogénique

Publication

**EP 1284403 B1 20051221 (DE)**

Application

**EP 01125721 A 20011027**

Priority

DE 10139097 A 20010809

Abstract (en)

[origin: EP1284403A1] To produce oxygen, by breaking down air under low temperatures, an oxygen column is used in a distillation system. An initial airflow (2) is relaxed (22) to reduce its working power, and passed into the oxygen column (7). A further feed flow (14) is fed into the head of the oxygen column, with an oxygen content at least equal to the feed air. At least one oxygen product flow (16) is taken from the lower section of the column, and a residual gas flow (17) is extracted at the column head and is relaxed (19). The oxygen column can be part of a twin-column system, as a low pressure column, with a high pressure column (6), and a heat exchange link between them through a condenser/evaporator (8).

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 3/04193** (2013.01); **F25J 3/04236** (2013.01); **F25J 3/04296** (2013.01); **F25J 3/04303** (2013.01); **F25J 3/04315** (2013.01); **F25J 3/04393** (2013.01); **F25J 3/044** (2013.01); **F25J 3/0443** (2013.01); **F25J 2200/20** (2013.01); **F25J 2200/70** (2013.01); **F25J 2245/40** (2013.01)

Cited by

EP2520886A1; WO2014154339A2; WO2014154339A3; WO2007104449A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

**EP 1284403 A1 20030219**; **EP 1284403 B1 20051221**; AT E313772 T1 20060115; DE 10139097 A1 20030220; DE 50108467 D1 20060126

DOCDB simple family (application)

**EP 01125721 A 20011027**; AT 01125721 T 20011027; DE 10139097 A 20010809; DE 50108467 T 20011027