

Title (en)

PROCESS AND APPARATUS FOR OBTAINING GASEOUS OXYGEN AT ELEVATED PRESSURE

Publication

**EP 0093448 B1 19861015 (DE)**

Application

**EP 83104318 A 19830502**

Priority

- DE 3216502 A 19820503
- DE 3216510 A 19820503

Abstract (en)

[origin: US4555256A] In the production of gaseous oxygen, a process and apparatus is used which requires low temperature rectification of air. The air is compressed, purified and cooled in a first heat exchanger while a second gas stream is compressed to elevated pressure, and is cooled in a second heat exchanger. Liquid oxygen removed from rectification is pressurized to a desired pressure and is evaporated and heated in heat exchange with the compressed gas stream.

IPC 1-7

**F25J 3/04**

IPC 8 full level

**F25J 3/04** (2006.01)

CPC (source: EP US)

**F25J 3/0409** (2013.01 - EP US); **F25J 3/04157** (2013.01 - EP US); **F25J 3/04218** (2013.01 - EP US); **F25J 3/04224** (2013.01 - EP US); **F25J 3/04296** (2013.01 - EP US); **F25J 3/04303** (2013.01 - EP US); **F25J 3/04345** (2013.01 - EP US); **F25J 3/04357** (2013.01 - EP US); **F25J 3/04387** (2013.01 - EP US); **F25J 3/04393** (2013.01 - EP US); **F25J 3/04412** (2013.01 - EP US); **F25J 2205/32** (2013.01 - EP US); **F25J 2240/10** (2013.01 - EP US); **F25J 2245/02** (2013.01 - EP US); **F25J 2245/40** (2013.01 - EP US); **Y10S 62/94** (2013.01 - EP US)

Citation (examination)

DE 2557453 A1 19770630 - LINDE AG

Cited by

DE19529681A1; FR2805339A1; FR2995393A1; CN104620067A; FR2776057A1; US6141990A; DE19910871B4; EP0454327A1; CN1050418C; AU626752B2; DE102013017590A1; EP2801777A1; WO2014041274A1; DE102007031765A1; EP2015012A2; EP2312248A1; EP2520886A1; EP2600090A1; DE102009034979A1; DE102012017488A1; EP2963369A1; DE102007031759A1; EP2963371A1; EP2015013A2; EP2963367A1; WO2016005031A1; EP2466236A1; EP2568242A1; DE10201112909A1; WO2014154339A2; EP2963370A1; EP2458311A1; DE102010052545A1; DE102011121314A1; EP2784420A1; US10012435B2

Designated contracting state (EPC)

AT BE DE FR GB IT NL SE

DOCDB simple family (publication)

**EP 0093448 A2 19831109**; **EP 0093448 A3 19841219**; **EP 0093448 B1 19861015**; CA 1212038 A 19860930; DE 3367023 D1 19861120; US 4555256 A 19851126

DOCDB simple family (application)

**EP 83104318 A 19830502**; CA 427335 A 19830503; DE 3367023 T 19830502; US 49035983 A 19830502