

Title (en)

PROCESS AND APPARATUS FOR OBTAINING GASEOUS OXYGEN AT ELEVATED PRESSURE

Publication

EP 0093448 A3 19841219 (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)

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Citation (search report)

- [A] US 3214925 A 19651102 - RUDOLF BECKER
- [A] US 3447332 A 19690603 - BASIN GENRIKH MAXOVICH, et al

Cited by

FR2805339A1; DE19529681A1; FR2995393A1; CN104620067A; FR2776057A1; US6141990A; DE19910871B4; EP0454327A1; CN1050418C; AU626752B2; EP2801777A1; DE102013017590A1; WO2014041274A1; DE102007031765A1; EP2015012A2; EP2312248A1; EP2520886A1; EP2600090A1; EP2963367A1; WO2016005031A1; DE102007031759A1; EP2963371A1; EP2015013A2; DE102009034979A1; DE102012017488A1; EP2963369A1; EP2458311A1; DE102010052545A1; DE102011121314A1; EP2784420A1; US10012435B2; EP2466236A1; EP2568242A1; DE102011112909A1; WO2014154339A2; EP2963370A1

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