

Title (en)
Process for the production of high pressure nitrogen and oxygen

Title (de)
Verfahren zur Herstellung von Hochdruck-Stickstoff und Sauerstoff

Title (fr)
Procédé de production d'azote sous haute pression et d'oxygène

Publication
EP 0562893 B2 20001220 (FR)

Application
EP 93400522 A 19930302

Priority
FR 9203501 A 19920324

Abstract (en)
[origin: EP0562893A1] According to this process, after the nitrogen originating from the low pressure column (11) is heated, it is compressed to the high pressure by means of a single nitrogen compressor (7) and the low-pressure column (11) is operated at a pressure of the order of PN/ rho N, where PN denotes the high pressure of nitrogen and rho N the compression ratio of the said nitrogen compressor. Application to the simultaneous production of, on the one hand, nitrogen of high purity at a pressure of between 50 and 60 bars and, on the other hand, oxygen at 65 bars, to feed a unit for producing ammonia. <IMAGE>

IPC 1-7
F25J 3/04

IPC 8 full level
F25J 3/04 (2006.01)

CPC (source: EP US)
F25J 3/04018 (2013.01 - EP US); **F25J 3/0403** (2013.01 - EP US); **F25J 3/0409** (2013.01 - EP US); **F25J 3/04121** (2013.01 - EP US); **F25J 3/04145** (2013.01 - EP US); **F25J 3/04315** (2013.01 - EP US); **F25J 3/04351** (2013.01 - EP US); **F25J 3/04412** (2013.01 - EP US); **F25J 3/04539** (2013.01 - EP US); **F25J 3/04545** (2013.01 - EP US); **F25J 3/04587** (2013.01 - EP US); **F25J 2200/20** (2013.01 - EP US); **F25J 2230/50** (2013.01 - EP US); **F25J 2290/12** (2013.01 - EP US)

Citation (opposition)
Opponent :

- EP 0384483 A2 19900829 - LINDE AG [DE]
- SU 739316 A1 19800605 - BELYAKOV VIKTOR P [SU], et al
- Prospectus de l'entreprise Atlas Copco: "Process-Engineered Centrifugal Compressors", 1991, pages 1 à 24
- Rohde, W., "Plants with Molecular Sieve Absorbers, Comparison with other Processes and Operational Advantages", LINDE-Symposium "Air Separation Plants", juin 1986, pages 1 à 20
- Springmann, H., "Die Gewinnung von Hochdruck-Sauerstoff", LINDE-Berichte aus Wissenschaft und Technik, 46/1979

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Designated contracting state (EPC)
DE ES IT NL

DOCDB simple family (publication)
EP 0562893 A1 19930929; EP 0562893 B1 19970507; EP 0562893 B2 20001220; CA 2092140 A1 19930925; CA 2092140 C 19980818; DE 69310429 D1 19970612; DE 69310429 T2 19971211; DE 69310429 T3 20010823; ES 2101256 T3 19970701; ES 2101256 T5 20010316; FR 2689224 A1 19931001; FR 2689224 B1 19940506; US 5341647 A 19940830; ZA 932796 B 19930930

DOCDB simple family (application)
EP 93400522 A 19930302; CA 2092140 A 19930322; DE 69310429 T 19930302; ES 93400522 T 19930302; FR 9203501 A 19920324; US 2778893 A 19930308; ZA 932796 A 19930312