

Title (en)  
Process and installation for producing oxygen under pressure

Title (de)  
Verfahren und Anlage zur Herstellung von Drucksauerstoff

Title (fr)  
Procédé et installation de production d'oxygene sous pression

Publication  
**EP 0611218 B2 20020807 (FR)**

Application  
**EP 94400300 A 19940211**

Priority  
FR 9301622 A 19930212

Abstract (en)  
[origin: EP0611218A1] All the air is compressed to a first high pressure and is then separated into two fractions. The first fraction, constituting at least 70% of the throughput, is supercompressed to a second high pressure and cooled in a heat-exchange line (6) to an intermediate temperature, at which a part is turbined (at 4) at the medium pressure whereas the rest is liquefied. The second fraction is cooled and liquefied (20A) in a heat-exchange line, in one or more flows, at one or more pressures lying between the said first high pressure and the said second high pressure.  
<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 3/04024** (2013.01 - EP US); **F25J 3/04084** (2013.01 - EP US); **F25J 3/0409** (2013.01 - EP US); **F25J 3/04145** (2013.01 - EP US); **F25J 3/04175** (2013.01 - EP); **F25J 3/042** (2013.01 - EP US); **F25J 3/04236** (2013.01 - EP US); **F25J 3/04278** (2013.01 - EP US); **F25J 3/04296** (2013.01 - EP US); **F25J 3/04303** (2013.01 - EP US); **F25J 3/04375** (2013.01 - EP); **F25J 3/04393** (2013.01 - EP US); **F25J 3/04412** (2013.01 - EP US); **F25J 2205/04** (2013.01 - EP US); **F25J 2270/90** (2013.01 - EP US); **F25J 2290/10** (2013.01 - EP US); **F25J 2290/62** (2013.01 - EP US); **Y10S 62/913** (2013.01 - EP US); **Y10S 62/94** (2013.01 - EP US)

Citation (opposition)  
Opponent :

- EP 0588690 A1 19940323 - AIR LIQUIDE [FR]
- US 5157926 A 19921027 - GUILLEMINOT ODILE [FR]
- EP 0464630 A1 19920108 - UNION CARBIDE IND GASES TECH [US]
- US 4303428 A 19811201 - VANDENBUSSCHE GERARD
- De Percin, G.: "La production d'oxygène sous pression", Bulletin of the International Institute of Refrigeration (Supplement) 1955, pp. 27 to 37

Cited by  
FR2828273A1; FR2928446A1; DE102012017488A1

Designated contracting state (EPC)  
BE DE ES FR GB IT NL SE

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**EP 0611218 A1 19940817; EP 0611218 B1 19981104; EP 0611218 B2 20020807**; AU 5506094 A 19940818; AU 660385 B2 19950622; CA 2115399 A1 19940813; CA 2115399 C 20050426; CN 1100514 A 19950322; CN 1101924 C 20030219; DE 69414282 D1 19981210; DE 69414282 T2 19990617; DE 69414282 T3 20030320; ES 2124856 T3 19990216; ES 2124856 T5 20030301; FR 2701553 A1 19940819; FR 2701553 B1 19950428; JP H06241650 A 19940902; US 5426947 A 19950627; ZA 94968 B 19940824

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**EP 94400300 A 19940211**; AU 5506094 A 19940211; CA 2115399 A 19940210; CN 94101375 A 19940208; DE 69414282 T 19940211; ES 94400300 T 19940211; FR 9301622 A 19930212; JP 1367794 A 19940207; US 18684494 A 19940127; ZA 94968 A 19940211