

Title (en)  
Process for the production of gaseous pressurised oxygen

Title (de)  
Verfahren zur Herstellung von gasförmigem Sauerstoff unter Druck

Title (fr)  
Procédé de production d'oxygène gazeux sous pression

Publication  
**EP 0504029 B1 19961023 (FR)**

Application  
**EP 92400600 A 19920309**

Priority  
• FR 9102917 A 19910311  
• FR 9115935 A 19911220

Abstract (en)  
[origin: EP0504029A1] In this process for the production of gaseous oxygen under high pressure by air distillation in a double column (7), pumping (at 12) of liquid oxygen drawn from the low pressure column vessel (9), and vaporisation (at 6) of the compressed liquid oxygen by heat exchange with air pressurised to a high pressure, all the air to be distilled is compressed to the high air pressure, the excess fraction of this air is expanded in a turbine (4) braked by an air supercharger (5) to the pressure of the medium pressure column (8), and at least one liquid product is withdrawn from the installation. <IMAGE>

IPC 1-7  
**F25J 3/04**

IPC 8 full level  
**F25J 3/04** (2006.01)

CPC (source: EP KR US)  
**F25J 3/04** (2013.01 - KR); **F25J 3/04084** (2013.01 - EP US); **F25J 3/0409** (2013.01 - EP US); **F25J 3/04175** (2013.01 - EP US); **F25J 3/04236** (2013.01 - EP US); **F25J 3/04296** (2013.01 - EP US); **F25J 3/04303** (2013.01 - EP US); **F25J 3/04375** (2013.01 - EP US); **F25J 3/04393** (2013.01 - EP US); **F25J 3/04412** (2013.01 - EP US); **F25J 2205/02** (2013.01 - EP US); **F25J 2205/04** (2013.01 - EP US); **F25J 2215/50** (2013.01 - EP US); **F25J 2215/54** (2013.01 - EP US); **F25J 2290/10** (2013.01 - EP US); **F25J 2290/62** (2013.01 - EP US); **Y10S 62/94** (2013.01 - EP US)

Cited by  
FR2854682A1; FR2906605A1; US6038885A; EP0689019A1; FR2721383A1; US5596885A; EP0576314A1; FR2692664A1; US5400600A; FR2688052A1; EP0628778A1; FR2706195A1; US5505052A; US5566556A; EP2600090A1; EP0757217A1; US5806341A; EP0611218A1; FR2701553A1; US5426947A; US9562716B2; US9945606B2; WO2012131277A3; WO2008051259A3; WO2004099690A1; WO2008040894A3; US7464568B2; WO2008129198A2; US7197894B2; US7490484B2; US7076971B2; DE102012017488A1; WO2008110734A2; US6871513B2; US8997520B2; EP0646755B1; EP0644388B1; EP0607979B1

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**EP 92400600 A 19920309**; AU 1215792 A 19920310; CA 2062506 A 19920309; DE 69214693 T 19920309; ES 92400600 T 19920309; JP 4852892 A 19920305; KR 920003937 A 19920310; US 15379493 A 19931117; ZA 921777 A 19920310