

Title (en)  
AIR SEPARATOR

Title (de)  
LUFTABSCHEIDER

Title (fr)  
SEPARATEUR D'AIR

Publication  
**EP 1612496 A1 20060104 (EN)**

Application  
**EP 04723340 A 20040325**

Priority  
• JP 2004004145 W 20040325  
• JP 2003086052 A 20030326  
• JP 2004002877 A 20040108

Abstract (en)  
An air separator oxygen gas capable of producing oxygen gas in an energy-saving manner, thereby remarkable downsizing can be realized. The air separator includes an air compressor (1) for taking in air from the outside and compressing it, first adsorption towers (2,3) for concentrating oxygen gas that is contained in the air compressed by the air compressor (1), an oxygen/air compressor (11) for further compressing oxygen-rich compressed air (X) passed through the first adsorption towers (2,3), a main heat exchanger (21) for cooling oxygen-rich compressed air (Y) passed through the oxygen/air compressor (11), and a high-pressure rectification tower (23) and a low-pressure rectification tower (28) for taking out oxygen gas by separating the oxygen-rich compressed air (Y) passed through the main heat exchanger (21) so as to be cooled to a low temperature by utilizing differences in boiling points of elemental gases.

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

IPC 8 full level  
**F25J 3/04** (2006.01); **B01D 53/26** (2006.01); **C01B 13/02** (2006.01); **C01B 21/04** (2006.01)

CPC (source: EP KR US)  
**F25J 3/04** (2013.01 - KR); **F25J 3/04018** (2013.01 - EP US); **F25J 3/04036** (2013.01 - EP US); **F25J 3/04145** (2013.01 - EP US); **F25J 3/04169** (2013.01 - EP US); **F25J 3/04254** (2013.01 - EP US); **F25J 3/04309** (2013.01 - EP US); **F25J 3/04636** (2013.01 - EP US); **F25J 2200/06** (2013.01 - EP US); **F25J 2205/60** (2013.01 - EP US); **F25J 2210/42** (2013.01 - EP US); **F25J 2210/50** (2013.01 - EP US)

Designated contracting state (EPC)  
BE DE ES FR GB

DOCDB simple family (publication)  
**EP 1612496 A1 20060104**; **EP 1612496 A4 20120829**; **EP 1612496 B1 20161207**; BR PI0408715 A 20060307; CN 100390481 C 20080528; CN 1764813 A 20060426; JP 2004309119 A 20041104; JP 4782380 B2 20110928; KR 101099855 B1 20111228; KR 20060024352 A 20060316; US 2006272352 A1 20061207; WO 2004085941 A1 20041007

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**EP 04723340 A 20040325**; BR PI0408715 A 20040325; CN 200480008046 A 20040325; JP 2004002877 A 20040108; JP 2004004145 W 20040325; KR 20057017678 A 20040325; US 55062704 A 20040325