

Title (en)

Process and plant for distilling air and application in the feeding of gas to steel plants.

Title (de)

Verfahren und Einrichtung zur Luftdestillierung und Anwendung beim Zuführen von Gas an Stahlwerken.

Title (fr)

Procédé et installation de distillation d'air, et application a l'alimentation en gaz d'une aciérie.

Publication

**EP 0531182 A1 19930310 (FR)**

Application

**EP 92402246 A 19920806**

Priority

FR 9110035 A 19910807

Abstract (en)

[origin: FR2680114A1] The plant is of the type with a double column (2) and a mixing column (6). The latter is fed in the tank with auxiliary air compressed to a pressure differing from that of the intermediate-pressure column (3) and at the head with liquid drawn off at the bottom of the low-pressure column (4) and pumped at the same pressure as the auxiliary air. Impure oxygen is drawn off at the head of the mixing column as output gas, and nearly pure oxygen is produced in the tank of the low-pressure column. <IMAGE>

Abstract (fr)

L'installation est du type à double colonne (2) et à colonne de mélange (6). Cette dernière est alimentée en cuve par de l'air auxiliaire comprimé à une pression différente de celle de la colonne moyenne pression (3), et en tête par du liquide soutiré au bas de la colonne basse pression (4) et pompé à la même pression que l'air auxiliaire. De l'oxygène impur est soutiré en tête de la colonne de mélange en tant que gaz de production, et de l'oxygène à peu près pur est produit en cuve de la colonne basse pression. <IMAGE>

IPC 1-7

**F25J 3/04**

IPC 8 full level

**F25J 3/04** (2006.01)

CPC (source: EP US)

**F25J 3/0409** (2013.01 - EP US); **F25J 3/04303** (2013.01 - EP US); **F25J 3/04466** (2013.01 - EP US); **F25J 3/04557** (2013.01 - EP US); **F25J 3/04678** (2013.01 - EP US); **F25J 2200/06** (2013.01 - EP US); **F25J 2200/90** (2013.01 - EP US); **F25J 2200/94** (2013.01 - EP); **F25J 2215/52** (2013.01 - EP US); **F25J 2235/50** (2013.01 - EP US); **F25J 2250/40** (2013.01 - EP US); **F25J 2250/50** (2013.01 - EP US); **Y10S 62/915** (2013.01 - EP US); **Y10S 62/939** (2013.01 - EP US)

Citation (search report)

- [A] FR 2169561 A6 19730907 - AIR LIQUIDE [FR]
- [A] FR 1314605 A 19630111 - LINDES EISMASCHINEN AG

Cited by

EP2703757A1; EP1666824A1; EP0697576A1; EP0932005A1; FR2774159A1; EP1387136A1; EP0698772A1; EP1026464A1; FR2789162A1; EP0932006A1; FR2774157A1; US6089040A; US5582035A; EP0636845A1; FR2898134A1; EP0982554A1; AU2007220388B2; AU2007220388B8; EA013661B1; US6247333B1; DE102012017488A1; DE102013009950A1; US7645319B2; WO2007099246A3; WO2014067662A3; US6871513B2; US6295835B1; DE102012017484A1; WO2014037091A2

Designated contracting state (EPC)

BE DE ES FR IT NL SE

DOCDB simple family (publication)

**FR 2680114 A1 19930212; FR 2680114 B1 19940805**; AU 2079892 A 19930211; AU 655485 B2 19941222; BR 9203049 A 19930504; CA 2075420 A1 19930208; CA 2075420 C 20030513; CN 1062656 C 20010228; CN 1071000 A 19930414; DE 69208412 D1 19960328; DE 69208412 T2 19960704; DE 69208412 T3 20010823; EP 0531182 A1 19930310; EP 0531182 B1 19960221; EP 0531182 B2 20001227; ES 2083709 T3 19960416; ES 2083709 T5 20010316; US 5291737 A 19940308

DOCDB simple family (application)

**FR 9110035 A 19910807**; AU 2079892 A 19920805; BR 9203049 A 19920806; CA 2075420 A 19920806; CN 92110647 A 19920807; DE 69208412 T 19920806; EP 92402246 A 19920806; ES 92402246 T 19920806; US 92333692 A 19920731