

Title (en)

Combined oven and air separation plant and method of application

Title (de)

Kombinierte Ofen und Lufttrennungsanlage und Verfahren zur Anwendung

Title (fr)

Installations combinées d'un four et d'un appareil de distillation d'air et procédé de mise en oeuvre

Publication

EP 0932005 A1 19990728 (FR)

Application

EP 99400149 A 19990122

Priority

FR 9800724 A 19980123

Abstract (en)

A combined installation comprises a furnace(s), a blowing engine(s) discharging into a main compressed air line connected to the furnace, a distillation apparatus incorporating a medium pressure column(s) and a mixing column having an oxygen outlet line emerging in a downstream part of the main compressed air line and a circuit for the diversion of the air, connected to the main compressed air line via a purification apparatus and supplying the air to the medium pressure column and the mixing column. A combined installation comprises at least one furnace (FM), at least one blowing engine (S) discharging into a main compressed air line (A) connected to the furnace, at least one air distillation apparatus incorporating at least one medium pressure column (MP) and a mixing column (CM) having an oxygen outlet line (O) emerging in a downstream part of the main compressed air line (A) and a circuit for the diversion of the air, connected to the main compressed air line (A) via a purification apparatus (E) and supplying the air to the medium pressure column (MP) and the mixing column (CM) and including at least one compressor- turbine battery (C, T). This battery is made up of at least one compressor (C1) in order to compress the diverted air supplied to at least the mixing column (CM) and at least one turbine (T1) arranged in a circuit (F1) for fluid under pressure available on the site of the installation. An Independent claim is also included for a method used to operate this combined installation for the oxygen enriching of air supplied to a furnace.

Abstract (fr)

L'installation combinée comprend au moins un four (FM) alimenté par une soufflante (S), au moins un appareil de distillation d'air comportant au moins une colonne moyenne pression (MP) et une colonne de mélange (CM) ayant une ligne de sortie d'oxygène (O) pour alimenter le four (FM), l'appareil de distillation étant alimenté par la soufflante (S), au moins l'air comprimé adressé à la colonne de mélange (CM) étant surpressé dans au moins un groupe compresseur-turbine (C2-T2) dont la turbine (T2) est disposée dans un circuit (Fi) d'un fluide sous pression disponible sur le site de l'installation, par exemple de la vapeur ou un gaz provenant du four. <IMAGE>

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IPC 8 full level

C21B 5/00 (2006.01); **F25J 3/04** (2006.01)

CPC (source: EP KR US)

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Citation (search report)

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- [AD] EP 0531182 A1 19930310 - AIR LIQUIDE [FR]
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