

Title (en)

NITROGEN PRODUCTION METHOD AND APPARATUS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR STICKSTOFFERZEUGUNG

Title (fr)

PROCÉDÉ ET APPAREIL DE PRODUCTION D'AZOTE

Publication

**EP 2126501 A2 20091202 (EN)**

Application

**EP 08731689 A 20080307**

Priority

- US 2008056239 W 20080307
- US 71649307 A 20070309

Abstract (en)

[origin: US2008216511A1] Method and apparatus for distilling nitrogen from a gaseous mixture containing nitrogen and oxygen. Oxygen-enriched bottoms liquid is partially vaporized within a first heat exchanger to condense part of the column overhead to produce reflux. Thereafter, the partially vaporized oxygen-enriched liquid is phase separated. A second oxygen-enriched liquid stream composed of at least part of the liquid phase is used to substantially condense all or part of the vapor stream derived from said phase separation, thereby to form a nitrogen-rich liquid stream. At least part of the nitrogen-rich liquid stream is reintroduced into the column to increase nitrogen recovery. The second oxygen-enriched liquid stream is then used to condense a second part of the reflux for the column.

IPC 8 full level

**F25J 3/04** (2006.01)

CPC (source: EP US)

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