

Title (en)

METHOD AND DEVICE FOR SEPARATING AIR BY CRYOGENIC DISTILLATION

Title (de)

VERFAHREN UND VORRICHTUNG ZUR LUFTZERLEGUNG DURCH KRYOGENE DESTILLATION

Title (fr)

PROCÉDÉ ET APPAREIL DE SÉPARATION D'AIR PAR DISTILLATION CRYOGÉNIQUE

Publication

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Application

**EP 12720248 A 20120405**

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Abstract (en)

[origin: WO2012136939A2] The invention relates to a method for separating air by cryogenic distillation in a separation unit including a medium-pressure column (23) and a low-pressure column (25), in which a flow of oxygen-rich liquid is sent to the top of the column of pure oxygen, having a vessel reboiler (61), in which said flow is purified in order to form a vessel liquid containing at least 98 mol % of oxygen and the vessel liquid is drawn off as a product; a supercharged airflow at a second pressure higher than the first pressure is sent to the vessel reboiler of the pure oxygen column and to a liquid oxygen vaporiser (51); a nitrogen-rich gas is drawn from the top of the medium-pressure column; said gas is sent to an intermediate reboiler of the low-pressure column and the condensed gas is sent to the top of the medium-pressure column; and a nitrogen-rich gas or air is sent to a vessel reboiler (36) of the low-pressure column and the liquid that condenses therein is sent to the medium-pressure column.

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