Title (en)

PROCESS AND PLANT FOR THE SEPARATION OF NITROGEN AND OXYGEN FROM GASES RICH OF NITROGEN AND/OR OXYGEN

Title (de)

VERFAHREN UND VORRICHTUNG ZUM TRENNEN VON STICKSTOFF UND SAUERSTOFF VON GASEN, DIE REICH AN STICKSTOFF UND/ODER SAUERSTOFF SIND

Title (fr)

PROCEDE ET INSTALLATION DE SEPARATION D'AZOTE ET D'OXYGENE DE GAZ RICHES EN AZOTE ET/OU OXYGENE

Publication

EP 0996493 A1 20000503 (EN)

Application

EP 98938603 A 19980604

Priority

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- IT FI970138 A 19970606

Abstract (en)

[origin: WO9855207A1] Process for the separation of nitrogen or oxygen starting from gases rich of nitrogen and oxygen, preferably air, including the following steps: a) separation of nitrogen/oxygen by means of molecular sieves preferably, filtered and pressurised air flowing from the bottom of a first vessel containing molecular sieves counter current to a flow of pure separated gas; removing of the gas separated in the first vessel and delivering to a buffer tank; simultaneous regeneration of the second bed by means of pressure reduction, purging with a portion of pure separated gas and venting from the bottom of the secondary gas adsorbed; b) pressure equalisation in the two vessels; c) regeneration of the molecular sieves of the first vessel analogously to what described for the second bed. Furthermore, the invention concerns a plant for executing the process.

IPC 1-7

B01D 53/047; B01D 53/053; C01B 13/02; C01B 21/04

IPC 8 full level

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