

Title (en)

METHOD FOR PRODUCING ONE OR MORE AIR PRODUCTS AND AIR SEPARATION SYSTEM

Title (de)

VERFAHREN ZUR GEWINNUNG EINES ODER MEHRERER LUFTPRODUKTE UND LUFTZERLEGUNGSANLAGE

Title (fr)

PROCÉDÉ DE PRODUCTION D'UN OU DE PLUSIEURS PRODUITS PNEUMATIQUES ET INSTALLATION DE SÉPARATION D'AIR

Publication

EP 3410050 B1 20190501 (DE)

Application

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Priority

EP 17020238 A 20170602

Abstract (en)

[origin: US2018347900A1] The invention proposes a process and an air separation plant comprising a rectification column system comprising a high-pressure column, a low-pressure column, a main heat exchanger, and a main air compressor. The total air supplied to the rectification column system is compressed in the main air compressor to a first pressure level. The high-pressure column is operated at a second pressure level, at least 3 bar below the first pressure level. A gaseous, nitrogen-rich fluid is removed from the high-pressure column and warmed up in the gaseous state without prior liquefaction. A first partial quantity of the gaseous, nitrogen-rich fluid is warmed to a first temperature level of −150 to −100° C., supplied at this first temperature level to a booster and compressed further to a third pressure level. The first partial quantity is then warmed to a second temperature level and discharged from the air separation plant.

IPC 8 full level

F25J 3/04 (2006.01)

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