

Title (en)

METHOD FOR OBTAINING ONE OR MORE AIR PRODUCTS, AND AIR FRACTIONATION PLANT

Title (de)

VERFAHREN ZUR GEWINNUNG EINES ODER MEHRERER LUFTPRODUKTE UND LUFTZERLEGUNGSANLAGE

Title (fr)

PROCÉDÉ D'OBTENTION D'UN OU DE PLUSIEURS PRODUITS À BASE D'AIR, ET INSTALLATION DE FRACTIONNEMENT D'AIR

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Application

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Abstract (en)

[origin: WO2022053172A1] The invention relates to a method for obtaining one or more air products, in which method an air fractionation plant is used which has a column system (10) with a pressure column (11), wherein the pressure column (11) is operated in a pressure range of 4 to 7 bar, wherein air is fed to the column system (10) and is fractionated in the column system (10), wherein at least 90% of the total amount of air supplied to the column system (10) is compressed to a base pressure level that lies more than 5 bar above the pressure range at which the pressure column (11) is operated, wherein nitrogen-rich gas is extracted from the pressure column (11), and wherein, at least in a first operating mode, further air is compressed to a pressure level above the base pressure level, is expanded, and is warmed without fractionation in the column system (10). It is provided that, at least in the first operating mode, a proportion of the nitrogen-rich gas extracted from the pressure column (11) is fed to the further air upstream of the expansion. The present invention likewise relates to a corresponding air fractionation plant.

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