

Title (en)

METHOD AND SYSTEM FOR THE PRODUCTION OF PRESSURIZED AIR GAS BY CRYOGENIC DISTILLATION OF AIR

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ERZEUGUNG EINES DURCH TIEFTEMPERATURZERLEGUNG VON LUFT GEWONNENEN DRUCKGASES

Title (fr)

PROCEDE ET INSTALLATION DE PRODUCTION DE GAZ DE L'AIR SOUS PRESSION PAR DISTILLATION CRYOGENIQUE D'AIR

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2004099691A1] The invention relates to a method for the separation of air by cryogenic distillation, wherein all of the air is brought to a high pressure of at least 5-10 bars above average pressure; part (11) of the air, including 10-50 % of the high pressure air flow, is compressed in a cold compressor (23) and is then dispatched to an exchanger; at least one part (37) is liquified in the cold end thereof and is then transmitted to at least one column (100) of a system of columns; another fraction of the air (13), at least that which is under high pressure, is at least partially expanded in a Claude turbine (17) and is then sent (35) to the average pressure column (100); at least one liquid flow (25) is drawn off from one of the columns (200) of the column system, pressurized (50) and vaporized in the exchange line (9) and the cold suppressor (23) is coupled to a drive device from the following: an expansion turbine (119, 119A); an electric motor (61); iii) a combination of an expansion turbine and an electric motor.

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