Title (en)

METHOD AND DEVICE FOR VARIABLE EXTRACTION OF ARGON BY CRYOGENIC DECOMPOSITION OF AIR

Title (de)

VERFAHREN UND VORRICHTUNG ZUR VARIABLEN GEWINNUNG VON ARGON DURCH TIEFTEMPERATURZERLEGUNG

Title (fr)

PROCÉDÉ ET DISPOSITIF DESTINÉS À L'OBTENTION VARIABLE D'ARGON PAR LA DÉCOMPOSITION À BASSE TEMPÉRATURE DE L'AIR

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2016058666A1] The method and device are used to variably obtain argon by means of low-temperature separation. Feed air (1, 4, 7) is cooled in a main heat exchanger (8) and then conducted into a distillation column system which has a high-pressure column (10) and a low-pressure column (11). During an argon obtaining process using a crude argon column (81, 82) and a purified argon column (3), a purified liquid argon product flow (72) is generated from an argon-enriched flow (80) from the low-pressure column (11). In a first operating mode, a first purified argon product quantity is discharged as the end product, and in a second operating mode, a reduced purified argon product quantity is discharged as the end product. In the second operating mode, a gaseous argon return flow (101, 103) is drawn from the crude argon column or the purified argon column and heated in a separate passage (108) of the main heat exchanger (8).

IPC 8 full level

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