

Title (en)

Process and apparatus for the production of pressurised oxygen and krypton/xenon by cryogenic air separation

Title (de)

Verfahren und Vorrichtung zur Gewinnung von Drucksauerstoff und Krypton/Xenon durch Tieftemperaturzerlegung von Luft

Title (fr)

Procédé et dispositif pour la production d'oxygène sous pression et de krypton/xénon par séparation cryogénique d'air

Publication

EP 1006326 B1 20040421 (DE)

Application

EP 99102628 A 19990211

Priority

DE 19855487 A 19981201

Abstract (en)

[origin: EP1006326A1] Process for recovering pressurized oxygen and krypton/xenon comprises low temperature decomposition of air in a rectification system consisting of a low pressure column (3) for nitrogen-oxygen separation and a krypton-xenon enriching column (15). Process for recovering pressurized oxygen and krypton/xenon comprises low temperature decomposition of air in a rectification system consisting of a low pressure column (3) for nitrogen-oxygen separation and a krypton-xenon enriching column (15). Pressurized pre-cleaned process air (4, 21-23) is fed into the rectification system. A first oxygen fraction (11) is removed from the low pressure column, placed under pressure using a pump (12), vaporized and removed as gaseous pressurized oxygen product (24). A second oxygen fraction (16) is removed from the low pressure column and fed via line (18) to the lower or middle region of the krypton-xenon enriching column. The first oxygen fraction (11) is removed above the sump of the low pressure column and fed via line (14) to the upper region of the krypton-xenon enriching column. A krypton- and/or xenon-enriched fraction is removed from the lower region of the krypton-xenon enriching column. The gaseous pressurized oxygen product (24) is removed from the top of the krypton-xenon enriching column.

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