

Title (en)

Method and cryogenic plant for producing gaseous oxygen.

Title (de)

Verfahren und kryogenische Anlage für die Herstellung gasförmigen Sauerstoffs.

Title (fr)

Procédé et installation cryogénique pour la production de l'oxygène gazeux.

Publication

EP 0029656 A1 19810603 (EN)

Application

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Priority

GB 7936637 A 19791023

Abstract (en)

A method of producing gaseous oxygen comprises the steps of fractionating dry compressed air in a distillation system (9) having a high pressure column (8) operating at between 4 and 8 bars gauge and a low pressure column (15) operating at between 0.3 and 2 bars gauge. Liquid oxygen is withdrawn from the bottom of the low pressure column (8) through line (40) is pressurized by static head and/or a pump (41) and is evaporated in vessel (43) against a stream (27) of substantially pure nitrogen which has been removed from the top of the high pressure column (8) and compressed to such a pressure that it is at least partly liquified by the evaporation of the oxygen. At least part of the liquified nitrogen formed in vessel (43) is expanded and is returned to the high pressure column (8) as reflux.

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Citation (search report)

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Cited by

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