

Title (en)
oxygen gas manufacturing apparatus

Title (de)
Apparat zur Herstellung von Sauerstoffgas

Title (fr)
Dispositif de fabrication de gaz d'oxygène

Publication
EP 0745817 B1 20010926 (EN)

Application
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Priority
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Abstract (en)
[origin: EP0745817A1] The apparatus includes a fractionating tower (58) for liquefying and separating compressed air cooled by heat exchangers (56,57) to an ultralow temperature, a liquid oxygen takeout path (72) for guiding liquid oxygen from the above-mentioned fractionating tower to the above-mentioned heat exchangers to gasify so as to become oxygen gas, and a product oxygen gas takeout path (74) which extends from the upstream end of the above-mentioned liquid oxygen takeout path and increases the temperature of the above-mentioned oxygen gas so as to obtain a product oxygen gas. The liquid oxygen takeout path is provided with an oxygen gas pressurizing pump (73), and the product oxygen gas takeout path on the side upstream the above-mentioned heat exchangers is provided with an expansion turbine (75). In the present invention, the liquid oxygen taken out from the fractionating tower is pressurized in a liquid state, then introduced into the expansion turbine to generate cold, which cold is fed to the heat exchangers and used as a cold source for the entire equipment to reduce the cost of refrigeration. <IMAGE>

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Cited by
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