

High-purity oxygen production apparatus

ABSTRACT

[Problem]

To provide a high-purity oxygen production apparatus which can be efficiently controlled so that high-purity oxygen of the desired quality is produced.

[Solution]

The apparatus comprising; a heat exchanger, a first rectification column, a second rectification column, a first piping and a second piping. The first rectification column introduces a feed air cooled by the heat exchanger and reduces the concentration of high-boiling-point impurities in an oxygen-containing liquid as compared to the feed air. The second rectification column introduces the oxygen-containing liquid discharged from the first rectification column via the first piping and reduces the concentration of low-boiling-point impurities in high-purity oxygen as compared to the oxygen-containing liquid. The first piping comprises a branch portion and a first valve which adjusts the flow rate of the oxygen-containing liquid to the second rectification column. The second piping branches from the branch portion and comprises a second valve.

[Fig. 1]