

ABSTRACT OF THE DISCLOSURE

Title: DISTILLATION APPARATUS AND DISTILLATION METHOD

Abstract: A distillation apparatus includes a column body; a partition for dividing the interior of the column body; a first distillation section composed of an enriching section and an exhaust section; a second distillation section composed of an enriching section formed above an upper end of the first distillation section, and an exhaust section located adjacent to the enriching section of the first distillation section; a third distillation section composed of an enriching section located adjacent to the exhaust section of the first distillation section, and an exhaust section formed below a lower end of the first distillation section; a condenser; a negative pressure generation system for generating a negative pressure to thereby withdraw vent gas; a gas cooler for cooling the vent gas; a first discharge system disposed at the side of the column body and adapted to discharge liquid rich in a medium-boiling-point component formed from a high-melting-point material; and a second discharge system disposed at the bottom of the column body and adapted to discharge liquid rich in a high-boiling-point component formed from a high-melting-point material. The first discharge system includes a first solidification prevention system for preventing solidification of the liquid rich in the medium-boiling-point component. The second discharge system includes a second solidification prevention system for preventing solidification of the liquid rich in the high-boiling-point component.

Figure for Publication: FIG. 11