

**TITLE OF INVENTION: PREPARATION METHOD OF VINYL
ACETATE BY ETHYLENE PROCESS AND DEVICE THEREOF**

Abstract

The present invention relates to a process and a device for producing vinyl acetate by an ethylene process. By additionally arranging an ethylene recovery membrane assembly in a vinyl acetate synthesis section, the content of inert components such as nitrogen in a circulating system is controlled, ethylene gas is recovered from non-condensable gas, and a recovery rate of the ethylene reaches 58% or above. By adding sideline extraction at a refined VAC tower in a vinyl acetate refining section, a vinyl acetate product with purity higher than 99.98% is obtained, a mass fraction of acetic acid is less than or equal to 20 ppm, a mass fraction of acetaldehyde is less than or equal to 20 ppm, and a mass fraction of water is less than or equal to 100 ppm.

[FIG. 4]