

ABSTRACT OF THE DISCLOSURE

There are disclosed a process for recovering ammonia which comprises installing a shell and multi-tube adsorber which is equipped with plural adsorption tubes each packed inside with an ammonia adsorbent (e.g. synthetic zeolite) and equipped with a flow mechanism for a heat transfer medium for performing heat exchange through the adsorption tubes, passing an ammonia-containing gas through the adsorption tubes, while cooling the adsorbent with a heat transfer medium (e.g. water) to adsorb the ammonia, and thereafter collecting the adsorbed ammonia through desorption, while heating the adsorbent with a heat transfer medium (e.g. hot water) under reduced pressure; and an apparatus for the above process. The process and apparatus can recover a large amount of ammonia with high purity in high yield in a short period of time and at need in a continuous manner, prevent the deterioration of adsorption performance by forced cooling of the adsorbent, and prevent the lowering of the desorption rate by forced heating of the adsorbent.

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