

ABSTRACT

NEW USE OF REACTION BETWEEN SOLID AMMONIUM SULFATE AND SOLID CALCIUM CARBONATE IN AMMONIA-NITROGEN TREATMENT OF WATER BODY

The present invention particularly relates to a new use of a reaction between solid ammonium sulfate and solid calcium carbonate in ammonia-nitrogen treatment of a water body, achieving the purpose of solving the problems of high costs and poor effects in existing chemical ammonia-nitrogen treatment methods for water bodies. Solid ammonium sulfate and solid calcium carbonate are subjected to a surface contact double decomposition reaction under the conditions of a proper stirring strength and a proper temperature. Specifically, river revetments are built with calcium carbonate stones, and during a long period of water flowing, ammonia ions and sulfate ions in the water react with the calcium carbonate stones under alternate drying and wetting conditions to release ammonia gas, thus achieving the purpose of purifying water.