

CARRIER FOR RETAINING ANAMMOX BACTERIA FOR USE IN WASTEWATER TREATMENT, ANAMMOX BACTERIA-ADHERED PARTICLE, AND WASTEWATER TREATMENT APPARATUS USING THE CARRIER

ABSTRACT

[Problem] A carrier for retaining anammox bacteria, an anammox bacteria-adhered particle, and a wastewater treatment apparatus are provided that can remarkably reduce the start-up period for obtaining a nitrogen removal speed of 1 kg-N/m³/day.

[Solution] A carrier for retaining anammox bacteria includes carbon particles. The carbon particles are desirably graphite particles, particularly isotropic graphite particles. The carbon particles desirably have a zeta potential of −35 mV to 0 mV and an average particle size of 2 μm to 1000 μm.

Fig. 3