

AMMONIA-CONTAINING WASTEWATER TREATMENT METHOD
AND APPARATUS THEREOF

ABSTRACT OF THE DISCLOSURE

Disclosed are an ammonia-containing wastewater treatment method
5 and an apparatus, of which a main structure includes an ammonia
wastewater holding tank receiving therein ammonia-containing wastewater,
at least one ammonia nitrogen detection element detecting ammonia
nitrogen content of the ammonia-containing wastewater, at least one
aeration device connected to the ammonia wastewater holding tank, an
10 oxygen transfer coefficient calculation device in information connection
with the aeration device. The aeration device includes an aeration time
controller and a gas flowrate controller. As such, a total mass of oxygen
entering the ammonia wastewater treatment tank can be precisely
controlled by adjusting output time and output amount per unit time of the
15 aeration device and calculating an oxygen transfer coefficient-aeration
flowrate relationship of the aeration device, so that a ratio between the
ammonia nitrogen mass and the oxygen mass can be controlled to have
ammonium nitrogen first oxidized into nitrite before being oxidized into
nitrate.

20 Fig. 1