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APPARATUS AND METHOD FOR TREATING WASTEWATER CONTAINING NITROGEN-CONTAINING DYES

[Abstract]



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[Problem] To provide a wastewater treatment apparatus capable of easily decolorizing and decomposing, at a low cost, a persistent nitrogen-containing dye such as azo compound in wastewater containing a nitrogen-containing dye, being compact, having excellent durability and high processing power and ensuring long-term stable operation.

[Means for Resolution] A wastewater treatment apparatus for decolorization and denitrification of wastewater containing a nitrogen-containing dye, which comprises an obligatory anaerobic tank for bringing the wastewater containing a nitrogen-containing dye into contact with sulfate-reducing bacteria under obligatory anaerobic conditions, a nitrification tank for bringing the wastewater into contact with nitrifying bacteria under aerobic conditions and a denitrification tank for bringing the wastewater into contact with the denitrifying bacteria under anaerobic conditions.

[Selected Drawing] FIG. 1