

ABSTRACT OF THE DISCLOSURE

A fish rearing system having a water circulation system comprising: a trapping section including a particle trap 2 for capturing residual feed and fish feces contained in the water, a sediment trap 6 for accumulating a sediment in a rearing tank and separating the sediment from the water, a residual feed detecting sensor 5 interposed in a pipe 4 communicating with the particle trap 2 and the sediment trap 6, and a micro-screen filter 7; a denitrification device 12 for denitrifying a nitrogen compound dissolved and contained in the water; a bubble surfacing device 11 for generating bubbles by supplying air and/or ozone and removing surface active substances contained in the water by capturing the bubbles; an ultraviolet disinfection device 13 for disinfecting the circulating rearing water; an ammonium treatment section consisting of a immersion treatment device 15 and a non-immersion treatment device 14 and having a function of decomposing ammonium contained in the water; and an aeration device 21 for dissolving oxygen into the water; wherein the denitrification device 12 is disposed at the upstream of the bubble surfacing device 11 and includes a bypass pipe 10. Thus, the fish rearing system capable of performing water quality control at a low cost can be obtained by a rational combination of devices.