

Abstract

The present invention relates to a ballast water treatment system using a micro slash unit that includes a ballast pump, a flow meter, a ballast water treatment device for purifying the ballast water, a sensor for measuring residual oxidant concentration of the ballast water, and a controller, wherein the ballast water treatment device comprises a micro slash unit adapted to consistently apply mechanical rotating shocks to the ballast water by means of the rotation of a multi-stacked blade part to thus pulverize or kill microorganism contained in the ballast water and a disinfecting treatment part for chemically or electrically disinfecting the residual microorganisms in the ballast water, and the controller controls the revolutions per minute of the blade rotating body and the disinfection strength of the disinfecting treatment part according to the flow rate measured by the flow meter and the residual oxidant concentration measured by the sensor.

Fig. 2