

ABSTRACT

UNDERWATER CAVITATION JET CLEANING SYSTEM

An underwater cavitation jet cleaning system provided with an automatic metering feeder for cleaning solution organically integrates a cavitation jet technology with the improvement of cleaning solutions, which can not only increase bubbles during jet, but also is beneficial for removing hull dirt. An eddy segment of a nozzle is arranged as a spiral passage, and the eddy segment is gradually reduced from a water inlet to a water outlet, so that a speed of fluid becomes further faster. A volume of an in-pipe chamber of a barrel is different, and the fluid is pulsed while flowing through the barrel, so that the fluid is finally ejected from the nozzle of a cleaning gun, which efficiently improves the cavitation rate, and increases the generation of cavitation nucleus. A hollow revolving shaft of a cleaning plate is provided with a diversion passage and a wall of the diversion passage is provided with a plurality of arc-shaped strips, the hollow revolving shaft ejects the fluid downward, the fluid also applies a reverse thrust to the cleaning plate, which is beneficial for the cleaning plate to float on water.

(No Suitable Figure)