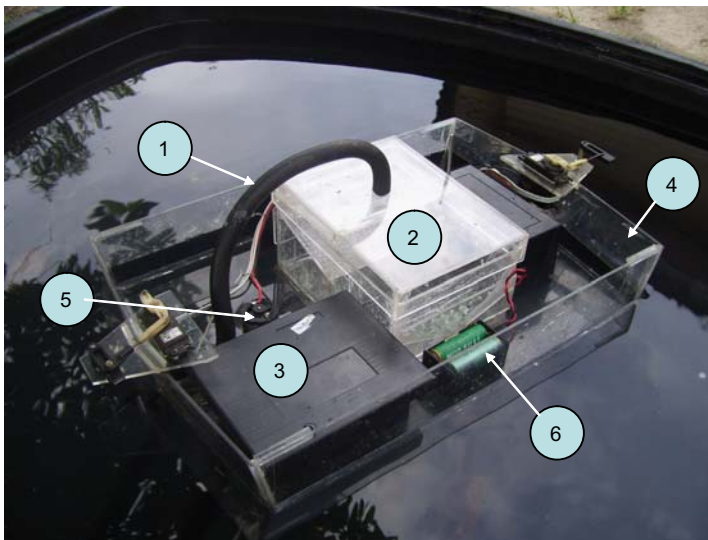
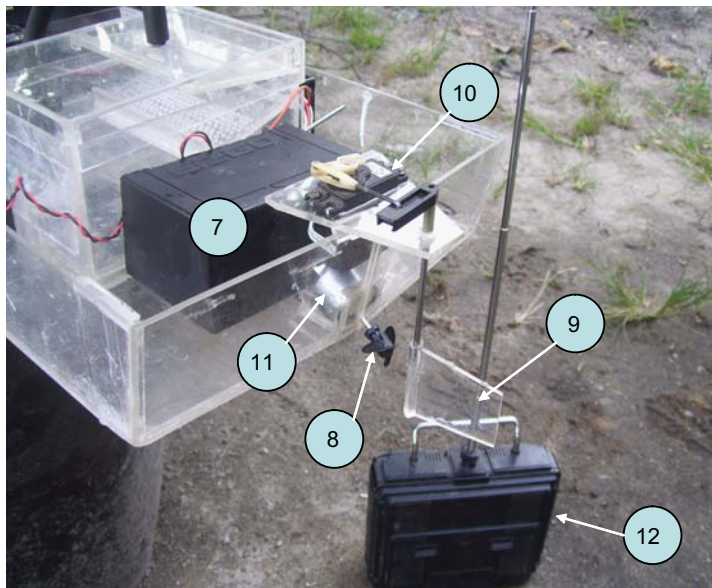


ABSTRACT

The machine is designed to clean up compounded water such as recreational lakes, water reservoirs, sewage ponds, stagnant seas and slow flowing rivers. Its operation and navigation can be remotely controlled using radio controller or via satellite using Global Positioning System (GPS). The cleaning machine is a floating vessel which has an integrated functions to remove BOD, COD, floating and suspended solid from the above water courses while navigating on the surface of the compounded water. It is equipped with a self cleaning micro filtering system which could screen up down to 12 micron suspended solid and an anti clog sludge pump attached to a retractable suction pipe which could be lengthened and shortened to suit with the depth profile of the compounded water. The anti clog pump and the screening system is the main component that perform most of the cleaning processes. The vessel is also equipped with the aeration system to aerate the water while slowly navigate on the surface of the compounded water. The aeration is necessary in order to accelerate the internal oxidation of waste in the water thus reduce odor release from the water surface.



1. Incoming water flexible hose from suction pump
2. Screening Compartment
3. Aeration air blower compartment
4. Perspex vessel
5. Suction pump motor
6. Batteries for PLC



7. PLC Compartment
8. Propeller
9. Ruder
10. Servo motor for ruder
11. Elect. Motor for propeller
12. Radio Controller

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