

ABSTRACT

SWIRLING TYPE MICRO-BUBBLE GENERATING SYSTEM

The swirling type micro-bubble generating system according to the present invention comprises a container main unit having a conical space or a bottle-like space, a liquid inlet provided in tangential direction on a part of circumferential surface of inner wall of said space, a gas introducing hole provided on the bottom of said space, and a swirling gas-liquid outlet arranged at the top of said space. According to this system, it is possible to readily generate micro-bubbles in industrial scale, and the system is relatively small in size and has simple structure and can be easily manufactured. The system can be used in the applications such as purification of water quality in ponds, lakes, marshes, man-made lakes, rivers, etc., for processing of polluted water using microorganisms, culture of fishes and other aquatic animals, and increase of oxygen and dissolved oxygen in culture solution in hydroponic culture farm and improvement of production yield.

Figure 1