

AQUAPONICS SYSTEM, AND FISH AND SHELLFISH REARING AND PLANT CULTIVATION METHOD USING THE AQUAPONICS SYSTEM

Abstract

An aquaponics system including a rearing tank of a rearing system and cultivation beds of a cultivation system, wherein the cultivation beds are arranged vertically in two or more stages. The system includes a rearing and cultivation circulating system in which liquid in the rearing tank is supplied to each of the cultivation beds, and the liquid in each bed is returned to the tank, to thereby circulate through the tank, beds, and tank. Fish and shellfish can be reared in the rearing tank and a plant can be cultivated in the cultivation beds, with the liquid circulating through the circulating path. Both a cultivation circulating system in which the liquid circulates through the water storage tank, the cultivation beds, and the water storage tank, and a rearing circulating system in which the liquid circulates through the rearing tank, the water storage tank, and the rearing tank may be arranged.

FIGURE: 1