TITLE : IMPROVED EXTERNAL OVERHEAD AQUARIUM FILTERS

ABSTRACT :

An improved external over head filtration system for an aquarium, occupying and maximising the rear space above the aquarium and the area between the top of the aquarium and the water surface and even below the water level within the aquarium unit (1-3 inches below the water level) with minimal or no encroachment on the fish living space. It comprise of multiple chambers each for a specific function sequentially for a settlement tank, a physical filter, bio-filtration units using under-gravel filtration, reverse under-gravel filtration, and dry aerobic trickle filtration units and a chemical filter. The internal partitions and weirs are at fixed positions or capable of being repositioned to provide the choice of using under-gravel filtration, reverse under-gravel filtration or a combined undergravel and reverse under gravel filtration. The detachable front loading chamber/drawer or physical filter, the detachable front loading chemical filter and the back wash drainage system allow for quick and easy maintenance resulting in a very effective filtration with savings in time, labour and water quantities needed. The maximised improved external overhead filtration system matches the centralised filtration systems but without the disadvantages. The filter units maybe as builtin filter assembly or as removable filter assembly with one or multiple tiers (upper and lower) combined unit or as multiple modular filter units linked on a single or multiple tier/s on a fixed support or extendable frame support, and can be combined with other external or internal filtration systems for enhanced filtration function. A water-vacum power cleaner makes maintenance even easier.

Drawings : Fig 13



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