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(71) Applicant: AUASIA AGROTECH SDN. BHD.
[MY/MY]; No. 9, Jalan Zarib 1, Zarib Industrial Park,
31500 Lahat, Ipoh, Perak (MY).

(72) Inventor: AU, Chen Hsiung; c/o AUAsia Agrotech Sdn.
Bhd., No. 9, Jalan Zarib 1, Zarib Industrial Park, 31500
Lahat, Ipoh, Perak (MY).

(74) Agents: HO, Shiela Shuk Kyun et al.; c/o Henry Goh &
Co Sdn Bhd, 217 Jalan Imbi, 55100 Kuala Lumpur (MY).

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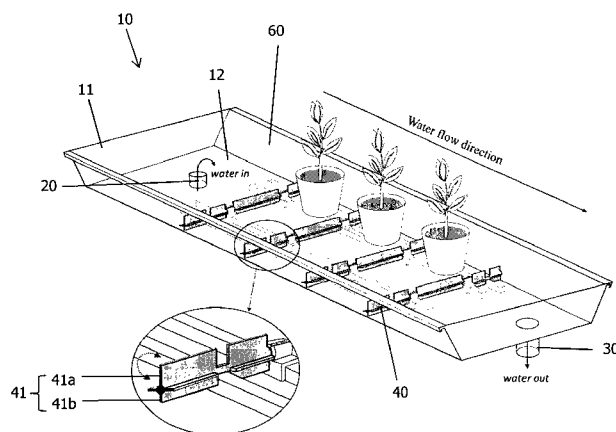


Figure 1

(57) Abstract: The tray (10) of the present invention is for use in hydroponics. The tray has a first end and a second end having a longitudinal axis defined therebetween. An inlet (20) is provided at the first end for receiving nutrient and an outlet (30) is provided at the second end for draining nutrient solution. A levee system comprising paddle assemblies (40) extending orthogonal to the longitudinal axis of the tray is disposed between the first end and second end of the tray. The paddle assemblies are adapted to partition the tray to define compartments and to impede the downstream flow of nutrient solution from the first end to the second end. The paddle assemblies are adjustable so as to regulate depth of nutrient solution in each compartment to enable optimal irrigation of the plants cultivated in each compartment. To complete a hydroponic system, the tray of the present invention connects to at least one reservoir for holding nutrient solution. The reservoir comprises conduits in flow communication with the inlet of the tray or outlet of the tray. Nutrient solution held in the reservoir is supplied to the tray via the inlet, and nutrient solution in the tray is drained into the reservoir via the outlet.

