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(71) Applicant: **AQUATREE GLOBAL, LLC** [US/US]; 232
Main Street, Fort Mill, South Carolina 29715 (US).

(72) Inventor: **HIGGINS, Kevin W.**; c/o Aquatree Global,
LLC, 232 Main Street, Fort Mill, South Carolina 29715
(US).

(74) Agent: **THOMAS, Jonathan A.** et al.; Alston & Bird LLP,
Vantage South End, 1120 South Tryon Street, Suite 300,
Charlotte, North Carolina 28203-6818 (US).

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(54) Title: **HYDROPONICS SYSTEM**

(57) Abstract: Provided herein is a system for hydroponics growing of plants. An apparatus for a hydroponics system described herein includes: a tray configured to receive water from the hydroponic system, circulate the water through the tray, and return the water to the hydroponic system, where the tray includes one or more flow control features configured to regulate water flow through the tray, and a tray insert supported by the tray, where the tray insert includes a plurality of holes through a bottom surface of the tray insert, where the tray insert is configured to receive seeds on the bottom surface and maintain the seeds in a predefined depth of water. According to some embodiments, the one or more flow control features include one or more slots, where the one or more slots are each arranged to receive therein a barrier that blocks a portion of water flow out of the tray.



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