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(54) Title: SYSTEMS AND METHODS FOR PROVIDING CART DRAINAGE FOR A MODULAR GROW TOWER

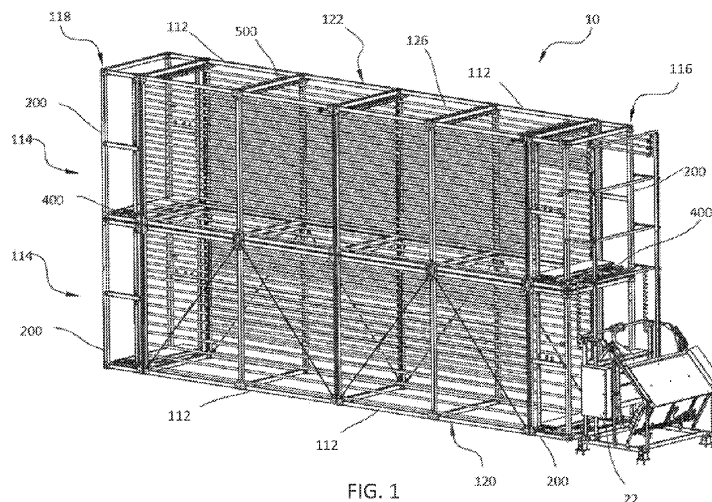


FIG. 1

(57) Abstract: The present disclosure presents systems and related methods for providing drainage in modular grow tower. One such method comprises supporting a quantity of crops on a plurality of carts, where each cart comprises a tray with perforations and fins sloped to direct water and/or nutrients towards the perforations; traversing the carts in a moving path from a top end to a bottom end of the grow tower; providing water and/or nutrients to the crops via a sustenance system comprising a watering component and a nutrient dosing component; collecting the water and/or nutrients draining through the plurality of perforations in the carts using a drainage system comprising a plurality of drainage troughs; and/or transporting the collected water and/or nutrients from the drainage troughs to a drainage pipe configured to carry the water and/or nutrients away from the grow tower.

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