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

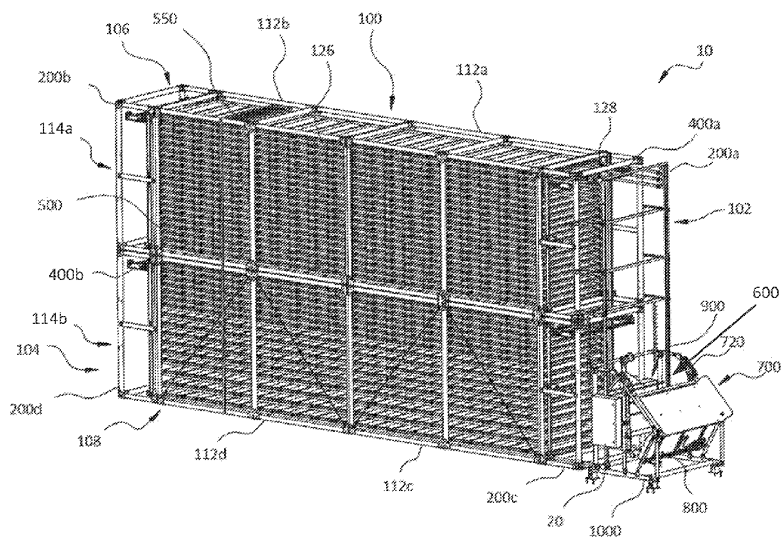


FIG. 1

(57) Abstract: The present disclosure presents modular grow tower systems and related methods. One such system comprises a modular grow tower assembly having a plurality of body frames, a plurality of lift frames, and a plurality of rows extending in a longitudinal direction and stacked in a vertical direction; a plurality of carts for supporting crop material, one or more lowering lift mechanisms for vertically translating the carts between rows; one or more raising lift mechanisms for vertically translating the carts; a sustenance system for providing water and nutrients to the crop material; a lighting system including lighting elements mounted within the body frames; a drainage system comprising drainage troughs and drainage pipes for collecting and transporting excess water and nutrients; and/or a master controller for managing and controlling operations of the modular grow tower system.

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