

AN AUTOMATIC PLANTING ASSEMBLY FOR PERIODICAL MULTIPLE SEEDLINGS CULTIVATION

ABSTRACT OF THE DISCLOSURE

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An automatic planting assembly for periodical multiple cultivation is disclosed. The planting assembly comprises a main frame structure having a main water pipe being mounted on the top of the structure; a plurality of planting boxes installed inside the main frame structure. The planting boxes are moving slowly within the main frame structure after the boxes are lifted
10 vertically upward by an elevating device and the boxes are located below a plurality of AI lighting modules mounted within the main frame structure. At different stages of plants growth, the independent AI lighting module dynamically adjusts multiple color combinations to meet the requirements for different growth of plants. The different spectrum and light intensity requirements of different color combinations are provided during the growth period so as to
15 obtain better plant appearance, color saturation, higher nutritional value, higher yield, prolonged storage time, and the plants are located below the AI lighting module which is positioned at the elevating device. At the final harvest stage, the plants are transferred to the elevating device to allow harvesting.

20 (FIG. 1)