

Full-automatic Parallel-moving Tray Type Organic plants Growing System

Abstract

Field of the Invention: The invention belongs to the field of agricultural growing, and particularly applied to plants organic vegetables, organic crude medicines, organic melons and fruits, and organic tobaccos.

Technical Solution:

(1) "Manufacture and Use an Organic Nutrition Soil for Growing Organic plants"(patent application name: MANUFACTURE AND USE AN ORGANIC NUTRITION SOIL FOR GROWING ORGANIC PLANTS, patent application No.: Singapore Patent Application No.201309584-9, patent application date: Accorded a Date of Filing 26/12/2013, and patent applicant: ZHANG AIMIN) previously invented by the inventor is selected as a material.

(2) Utilize whole-enclosed multi-span growing greenhouse to provide basic growing conditions for the system, and establish the whole system in the whole-enclosed multi-span growing greenhouse (see FIG. 1).

(3) A full-automatic parallel-moving tray type organic plants growing system (FIG. 2) consists of the following subsystems and devices: (A) an after-grown tray previously grown material turning and dumping system (FIG. 3), (B) an automatic screening and batching system (FIG. 4), (C) a grown material (artificial organic nutrition soil) automatic disinfection system (FIG. 5), (D) a grown material automatic loading system (FIG. 6), (E) an automatic sowing system (FIG. 7), (F) an automatic parallel-moving tray type organic plants growing system (FIG. 8), (G) a plants automatic picking and sorting system (FIG. 9), (H) a plants automatic packaging system (FIG. 10), (J) a matched automatic conveying system (FIG. 11), and (K) an automatic water curtain type watering system (FIG. 12), (L) a bearing roller type slide conveying system (FIG. 13), (M) an automatic screw pushing system (FIG. 14), (N) stainless steel tray (FIG. 15).

Figure 2