

ABSTRACT

Automatic Slot-Type Planting System for Organic Fruit Vegetables

This disclosure provides an automatic slot-type planting system for organic fruit vegetables, which includes an intelligent greenhouse (1), a sieving and disinfection batching system (2), an input and output material storage (3), and a mobile ontrack hopper car (4). There are a planting slot system (5), a track system (6), a mobile canopy frame system (7), a spraying and disinfecting system (8), a temperature and humidity monitoring system and a precooling and packaging system (9) arranged inside intelligent greenhouse (1). The planting slot system (5) has multiple parallelly arranged planting slots (51). The mobile canopy frame system (7) and the spraying and disinfecting system (8) are arranged over the planting slots (51); the temperature and humidity monitoring system is attached to the planting slot system (5). The precooling and packaging system (9) is arranged at one end of the intelligent greenhouse (1). By this disclosure, it realizes the automation, qualification and standardization for growing such plants as the fruit vegetables, the damage by disease and insect is completely and effectively prevented during the growth process, and the consumption of labor is only 10%-20% of that of the semi-enclosed slot type planting method for organic plants with the organic nutrition soil.

FIG. 1