

智能家用制肥机

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摘 要

近年来，随着我国经济的快速发展，人口的急速增加，我国的耕地总面积正在不断地减少，耕地资源变得非常短缺，我国的农业生产产量正在承担越来越沉重的压力。面对日益严峻的形式，走国外部分发达地区日渐成熟的城市生态农业路线，是一个环保可行的路线。城市给大众的印象就是高楼大厦的楼宇森林，大部分可用作耕地的土壤都被钢筋水泥隐埋在地底，没有种植物的生活空间。于是新的农业模式也随之应运而生，其中之一就是屋顶农业、庭院农业、阳台楼台农业。在此背景下，该新农业模式带来了施肥作物制作困难、容易滋生细菌、产生臭气方面等等问题。本文针对屋顶、阳台楼台的“阳台菜园”用户家庭的种植农业模式进行详细深入的调研，跟踪用户在此生产模式下制作肥料过程中产生的问题，以及对市场现有产品进行分析，重点针对用户使用过程中的痛点进行产品设计。

本设计主要针对家庭种植肥料的制作，针对目前新农业模式下的施肥物制作方式的落后，设计一款智能家用制肥器。本设计产品用以辅助用户利用家庭厨余废料制作优质肥料，使家庭施肥料的制作过程智能化、环保化。

关键词：新农业，肥料制作，智能家用制肥机

Abstract

In recent years, with the rapid development of China's economy and the rapid increase of population, the total area of arable land in our country is constantly decreasing, arable land resources have become very scarce, and the agricultural production in our country is bearing more and more heavy pressure. In the face of increasingly severe forms, it is a feasible and environmentally friendly route to follow the increasingly mature urban ecological agriculture route in some developed areas abroad. The impression of the city to the public is that the buildings and forests of tall buildings, most of the soil that can be used as farmland is buried in the ground by reinforced concrete, and there is no living space for plants. As a result, new agricultural models have emerged, one of which is roof agriculture, courtyard agriculture, balcony agriculture. In this context, the new agricultural model has brought many problems, such as the difficulty of making fertilizer crops, the easy breeding of bacteria, the generation of odor and so on. This paper makes a detailed and in-depth investigation on the farming mode of the users' families of the "balcony vegetable garden" on the roof and balcony, traces the problems in the process of making fertilizer under this production mode, and analyses the existing products in the market, focusing on product design for the pain points in the process of users' use.

This design is mainly aimed at the production of fertilizer for family planting. In view of the backwardness of fertilizer production mode under the current new agricultural mode, an intelligent home fertilizer maker is designed. This design product is used to assist users to make high-quality fertilizer by using household kitchen waste, so as to make the process of household fertilization intelligent and environmentally friendly.

Key words: New Agriculture, Fertilizer Production, Intelligent Household Fertilizer Machine

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