

基于单片机的智能晾衣架

摘 要

晾衣架是家居必备的产品，人们将洗好的衣服悬挂在其上，衣物慢慢变干。传统的晾衣架单纯的为我们解决了湿衣服的晾晒存放需要的问题。随着人们生活水平的日益提高，每个家庭都在为精致的生活而努力，各类智能化产品如雨后春笋般涌现。反观晾衣架的智能化进程则要整体滞后。现市场上的各类打着“智能”旗号的晾衣架反而并不怎么“智能”。本课题在智能晾衣架的功能性上再加探索，提出了一款基于 STM32 单片机的智能晾衣架构想。采用吊顶式设计，除具备市面上“智能”晾衣架杀菌、照明、风干、烘干、衣架起降、遥控等的实用性功能外，在衣物的自动管理方面进行探索。提出自动遮阳帘幕、衣物均匀晾晒、自动收衣等功能，赋予衣架以“大脑”，自行判断、自行处理，尽量少的依靠人力，实现真正的晾衣“智能化”、“便捷化”。

关键词：STM32，晾衣架，智能家居，衣物管理

ABSTRACT

Clothes hangers are a must-have at home, where people hang their laundry and it dries out. Traditional clothes-hangers simply solve the problem of drying and storing wet clothes for us. With the increasing improvement of people's living standard, every family is striving for a delicate life, and all kinds of intelligent products spring up like mushrooms. On the contrary, the process of the intellectualization of the clothes rack should lag behind as a whole. All sorts of all sorts of name on the market now "intelligence" the clotheshorse that banner banner is not quite instead "intelligence". In this paper, the function of the intelligent clotheshorse is further explored, and an idea of the intelligent clotheshorse based on STM32 MCU is put forward. Adopt the condole type design, in addition to have the market "intelligent" clothes rack sterilization, lighting, air drying, drying, clothes rack takeoff and landing, remote control and other practical functions, in the clothing automatic management to explore. Put forward the functions of automatic shading curtain, uniform drying of clothes, automatic clothing collection, etc., endow the hanger with "brain", judge and process by itself, and rely on human power as little as possible to realize the real "intelligence" and "convenience" of hanging clothes.

Keywords: STM32; clotheshorse; smart home; clothing management

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