

الآية

﴿ اللَّهُ نُورُ السَّمَاوَاتِ وَالْأَرْضِ مِثْلُ نُورِهِ كَمِشْكَاةٍ فِيهَا مِصْبَاحٌ الْمِصْبَاحُ فِي زُجَاجَةٍ الزُّجَاجَةُ كَأَنَّهَا كَوْكَبٌ دُرِّيٌّ يُوقَدُ مِنْ شَجَرَةٍ مُبَارَكَةٍ زَيْثُونَةٍ لَا شَرْقِيَّةٍ وَلَا غَرْبِيَّةٍ يَكَادُ زَيْتُهَا يُضِيءُ وَلَوْ لَمْ تَمْسَسْهُ نَارٌ نُورٌ عَلَى نُورٍ يَهْدِي اللَّهُ لِنُورِهِ مَنْ يَشَاءُ وَيَضْرِبُ اللَّهُ الْأَمْثَالَ لِلنَّاسِ وَاللَّهُ بِكُلِّ شَيْءٍ عَلِيمٌ ﴾

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Abstract

Elderly and sick people have to take medication due to their ailments. Typically, they are prescribed several different types of medication, which must be taken in varying dosages and times. Some of that medication needs to be taken on exact time, or they don't function as well.

The aim of this study is to Design of an automatic medication dispenser using microcontroller interfaced with an alphanumeric keypad, an LCD display, a stepper Motor, an Alarm system to alert the user when to take their pills through both audio and visual alarms, a multiple pill container contains four separate sub-boxes. Therefore, nurses or users can set information for four different pills.

The Automated Medication Dispenser System has been successfully designed and implemented; it is more comfortable by reducing physical steps. So it is helpful for the Elderly population.

مستخلص

كبار السن والمرضى يجب أن يأخذوا دواء بسبب أمراضهم. حيث يوصف لهم عدّة أنواع مختلفة من الدواء التي يجب أن تؤخذ في جرعات متفاوتة وفي اوقات مختلفة. ويجب ان تؤخذ في وقتها وإلا لن تؤدي وظيفتها المطلوبة.

الهدف من هذه النظام تصميم وتنفيذ موزع دواء آلي باستخدام مايكروكنترولر مرتبطة مع لوحة مفاتيح لإدخال البيانات، شاشة عرض، موتور، نظام إنذار لتنبيه المستخدم بتوقيت اخذ الجرعات عبر انذار صوتي وضوئي و حاوية تحتوي علي أربعة صناديق منفصلة. لذا، ممرضات أو مستعملون يمكن أن يضعوا معلومات لأربع ادوية مختلفة.

نظام صيدلي الدواء الآلي صمّم بنجاح وطبّق؛ هو أكثر راحة بتخفيض الخطوات الطبيعية. لذا هو مساعد للسكان المسن.

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