ELECTRONIC PEST REPELLENT

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ABSTRACT

Pest carried of various negative effects such as diseases. These diseases can even prove to be fatal for the poor, who have little access to medical care. Methods of repelling pest have been around for a long time. This project also will be one of the ways to avoid the disease. Electronics Pest Repellent was invented to overcome the problem. This project used electronic components combine with DC source to make this project completely done. This project uses microcontroller and 16MHz crystal, and small speaker. The electronic components and their function are combined into a bread board such as the microcontroller ATmega328P that functioned to produce various frequencies and make it as our output to repel various pests. The circuit constructed and the simulation was tested. The simulation result was same as the expected result.

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CHAPTER 1

INTRODUCTION

1.1 INTRODUCTION

Pests are defined as any harmful, noxious or troublesome organism. Common pests include insects, mites, rodents, fungi and weeds that wreak havoc on people, plants, animals or the ecology in general. Pests are injurious to health. Pests can act as carriers for allergens which irritate people with sensitive medical conditions [1]. Pest's faecal dropping and shed skin can also become airborne; contaminating the air we breathe in. This does not even include the bacteria that can be found on pests themselves. Common household pests such as cockroaches, rats and mosquitoes are carriers for infectious diseases and must be exterminated lest they overrun a household. In particular, cockroaches can slip through any crack in the walls, bringing with them bacteria such as salmonella and E. coli. Rats likewise carry salmonella on their bodies, leaving a trail of contamination on every surface. On the other hand, mosquitoes carry dengue fever. As they breed in stagnant water, it is highly recommended that water containers be frequently used up and covered.