ABSTRACT

An intrusion detector is an electronic device which detects the presence of a motion or a movement within a certain fixed range and raises an alarm on doing so. The purpose of this project was to build a simple movement detector alarm system which will be used to detect any intrusion (i.e. theft movement) which occurs at Nyamikoma village store after working hours. The system will produce an alarm to alert security guard to know if there is any intruder movement inside the village store.

In order to achieve goals of this project, various methods were used such as literature review in which the existing system was studied and a new idea of improving security at the village store was proposed.

All of the potential data needed for the proposed system was successfully collected and analyzed. A proper designing of the circuit was done simply by selecting appropriate components based on the information collected and analyzed. The circuit was simulated by using Circuit Wizard Simulation Software to check if it works according to the anticipated results before the physical implementation. Also the circuit was built on a Bread Board for initial testing and then the circuit was built on a Vero Board so as to meet the desired conditions. Furthermore, the circuit was tested to measure the desired output parameters according to the anticipated operation performance. The circuit was then analyzed and the set objectives was achieved

The system was aimed to improve security so as to eliminate the problem of theft at the village store.