

# Digitized Home – Locking System

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**Abstract**— The Digitized Home Locking System is a unique machine which helps you to withdraw money in a easy and a convenient way. In comparison to the current machines like ATM the Home Locking System enables the control to be authorized to the centralized controller for example the head of the family who could operate the machine thereby controlling the transactions and allowing the money to be withdraw. Now here comes an important scenario as to how the machine would be operated irrespective of the controller being in any part of the world. For such a monitoring we would be using the application known as the TeamViewer which helps you to operate your machine being in any part of the world. This was hence the abstract of the topic, The entire working of the Home Locking system and the components are explained in the coming sections of the research paper.

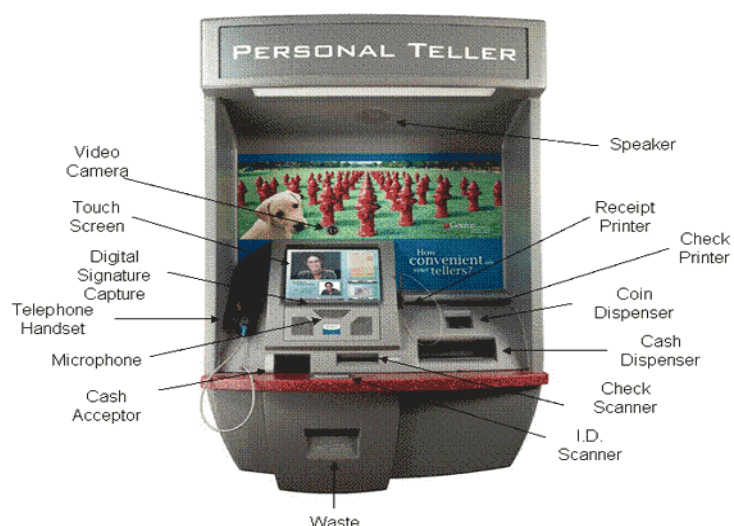
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## I. INTRODUCTION

In today's hi-tech world everyone has access to state of the art security systems. One of the latest trends in security systems is Digital safes locker. This digital safe lockers are Electronic safe locking systems which operates as per the signals received through the input key board. They are tamper proof and provide many security options for the user. Digital Electronic keypad entry lock offers several advantages also as it is not only more reliable and strong but also easy to use. It works on keypad number entry and is based on the combination of locks. The Digital lockers automatically go into locking mode if left idle for more than a preprogrammed time period.

With the increase of crimes in the society, Safety and security have become a primary concern for all. It is advisable to have the cash, ornaments and other valuables under safe custody because burglars these days are very tech savvy and they have a lot of modern equipment with them. Burglars are now equipped with instruments and they can destroy most of the conventional safety locker systems. The enhanced security features of the digital safe lockers have made it very difficult for the thieves to operate a digital safe locker. The need for

safe locker systems in homes, Offices, shops business establishments, banks, financial institutions, Petrol stations, Brokers, Hotels and Hospitals is increasingly felt in these days due to the increase in the security concerns.



Components Of the Home Locking System :

### A. Webcam :-

The new ultra-compact and lightweight camera is specifically designed for easy integration into mini-dome housings for superb observation. Its outstanding picture quality, excellent auto-focus performance and small size make it the ideal contender in space restricted environments such as underground inspection systems of oil gas pipes, low vision systems, police vehicles and more. The camera incorporates a 1/4-type EX view HAD CCD™ sensor and is equipped with a 10x optical zoom lens that can provide a 120x zoom ratio when combined with the digital zoom

### Features Of the Web Cam:-

\* Powerful & Versatile Zoom Capability



### B. Voice Command Device:-

A **voice command device (VCD)** is a device controlled by means of the human voice. By removing the need to use buttons, dials and switches, consumers can easily operate appliances with their hands full or while doing other tasks. Some of the first examples of VCDs can be found in home appliances with washing machines that allow consumers to operate washing controls through vocal commands and mobile phones with voice-activated dialing



### C. Team Viewer application:-

Provide technical remote support to mobile devices from any Windows, Mac, or Linux computer! Whether it's a single tablet or a deployed fleet of smartphones, TeamViewer mobile device support lets you connect to Android and iOS (iPad/iPhone/iPod Touch) mobile devices

through the TeamViewer Quick Support app. Support mobile devices remotely, all from the convenience of your workstation.



### Working of the home locking system :-

The working of the digitized home locking system is explained below. Consider the following points:-

1. Suppose if I am a member of the family who wishes to withdraw a specific amount from the locker system in my house.
2. The centralized controller over here is my mom who is currently not in town.
3. She has the authorization of the locker system. She mainly controls it with a one-time password which is known only to her for privacy constraints.
4. I being the user firstly on the webcam through which she can identify me by seeing a clear resolution picture.
5. Once she identifies me her voice will be modulated through a voice command device attached to the home locker through which she would understand the amount to be withdraw to complete the transaction.
6. Now ultimate action would be concluded. she will operate the locker from a remote place in the world through the user- friendly team viewer application through her pc or her mobile phone thereby controlling the opening and closing of the locker.
7. She henceforth will just allow the exact amount which is demanded by me to be withdraw with the

help of the cash acceptor which is attached just below the digitized locking system .

8. On the completion of the transaction the locker will be closed controlled by the team viewer application by the centralized controller in the remote part of the world thereby helping to maintain the security constraints.

#### **Advantages of the Digitized Home Locking System:-**

1. The digitized home locker system thus allows the security to be maintained through the authorization to be granted to the centralized controller.
2. Thus it operates though the technical components such as the webcam, the voice command device and the team viewer application which helps us to carry out a smooth transaction.

#### **Disadvantages of the Digitized Home Locking System:-**

1. It's a time consuming process as to the start and the completion of the transaction involves too many steps to be carried out.
2. The authorization of the locker is just given over to only a member of the family thereby requiring the presence of that specific member 24x7. Thus it becomes tedious for the centralized controller to handle the transactions every now and then.

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