

Problem Statement

A traditional safe using a lock and key to open has many problems

It is conspicuous

The keys are easy to lose

Copies of keys can be made

Keys can be stolen

It cannot be completely hidden

Idea

Our project is a knock activated secret compartment in a bookshelf. The idea is to have a safe and hidden hiding place for the sake of privacy. The added aspect is that it doesn't have a physical key but is rather opened by a specific sequence of knocks.

Final Project idea /Solution

A safe/compartment that gets unlocked with a certain pattern of knocks. We plan to integrate this system into a hidden compartment that can be revealed/unlocked using this mechanism.

Objectives of the project

Build a working model of a knock unlocking mechanism

Build a model of a case in which the system will be integrated

The model should unlock with a certain sequence of knocks and the lock again

Block diagram based on objectives

