

**UNIVERSITI TEKNOLOGI MARA**

**PORTABLE COIN SEPARATOR**

**MUHAMMAD THAQIF BIN MOHD NASIL**

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## **ABSTRACT**

The counting coins with high accuracy and speed was a challenging problem for seller and stores, as well as consumers. In this proposed work, a coin separator machine that can distinguish between accurately and automatically executed coins. A prototype of an automatic coin isolating and determining machine was developed using the vibration method as the main controller. The design of this separator coin tray is made to make it easy for the user to get the total quantity of each coin and the total separation amount as a whole. Coin receiver trays have been used because they act as coin selectors to determine the value of coins in a sorting system designed using a motion method to hold and distribute coins to the appropriate coin slot tray. The process used to make coin separators was sheet metal and welding. And for the material were aluminium plate, hollow steel, angle steel and mild steel. Even with limited materials, the project was well executed and functional.

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