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(57) Abstract :

Exemplary embodiments of the present disclosure are directed towards a method and apparatus for fruit sorting based on size and ripeness. A fruit sorting apparatus comprises of an apparatus configured to enable the user to load the fruits into the apparatus through the hopper/funnel, wherein the color sensors located near the hopper/funnel determine the size and ripeness of the fruit and pass on the information to the Arduino microcontroller. Further, the Arduino microcontroller collects the data from the sensors and utilizes the color detection module to sort the ripe fruits. Further, the sorted ripe fruits are loaded into tray 1 and the remaining fruits are passed onto the conveyor belt through the pipe. Further, the Arduino microcontroller regulates the DC motor and adjusts the partitions on the conveyor belt for separating the fruits according to the size. Finally, the sorted fruits according to the size are loaded into the respective trays. FIG. 1

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