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Design and Fabrication of Fruit Sanitization Machine

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Abstract: *This study documented the current status of Fruit sanitization as an essential step in food processing to ensure the removal of microorganisms and other harmful contaminants. This research paper presents the design and fabrication of a fruit sanitization machine that utilizes ultraviolet (UV) light and ozone gas to disinfect fruits. The machine consists of a stainless steel chamber, UV lamps, and an ozone generator. The fruits are placed inside the chamber, and the UV lamps and ozone generator are activated to sanitize the fruits. The machine was tested using different types of fruits, including apples, oranges, and grapes. The results showed a significant reduction in bacterial and fungal counts, indicating the effectiveness of the machine in fruit sanitization.*

Keywords: UV light, Mist Sprayer

XI. REFERENCE

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