

# Automatic Mysore Bonda Making Machine using Solar Energy

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**Abstract:-** Automatic compact table-top mysore bonda making appliance for use at lunch counters, in- store bakery counters, small bakeries and also as confectionery equipment. Freshly cooked mysore bondas are made in moderately large volume. This device is particularly adaptable for varying volume requirements, being adjustable to produce from about 5 -100 dozen mysore bondas per hour. It includes a general rectangular compact tank for holding the cooking fat or oil which is heated by automatic controlled means, by solar energy. A removable insert in the tank defines a circuitous path along which the mysore bondas flow in the course of being cooked. A removable dough extruding unit is mounted over one end of the tank to form and drop the rings of raw dough into the oil. The dough is moved along the surface of the cooking oil by a propulsion pump inducing a circulating flow of oil as the mysore bondas are first cooked on one side, then turned over automatically and cooked on the other side thereby being discharged from the machine. The machine can be readily disassembled for easy cleaning and no electricity is used in this appliance.

**Keywords:-** Solar Energy, Automatic, Highefficiency.

## I. INTRODUCTION

An automatic mysore bonda making machine works on solar energy which is achieved using solar panels installed as a part of the machine. The main objectives of this machine is:

- To enable faster production of the product
- Reduce work input by manual work
- Reduce cost parameters and maintenance parameters of the machine.

The working of this machine depends on the amount of solar rays trapped , used in converting into solar energy. The installation charges are to be comparatively lesser as a smaller sized solar panel of required capacity is only needed and no maintenance charges of solar panels will persist while the electrical machine requires power input and production rate is affected if there is irregular supply of power.

## II. MATERIALS

- Assembled automatic mysore bonda making machine without power supply
- Solar panel ( as per required dimension in proportion to equipment) and its extensions
- In this machine we use food grade steel402

➤ *Diagram*

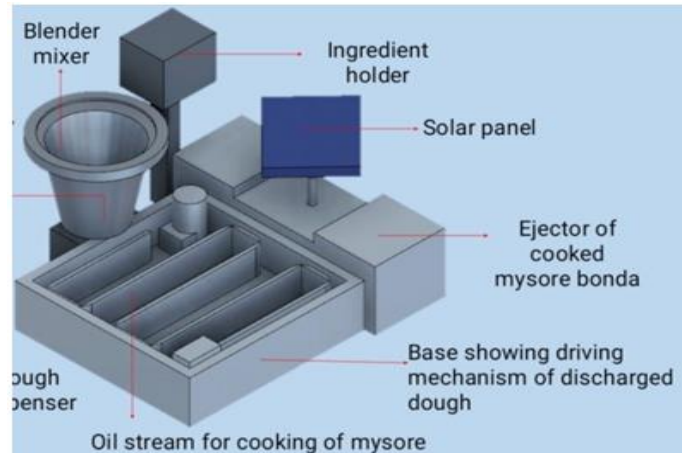


Fig 1:- Is an Angle View of the Doughnut Making Machine

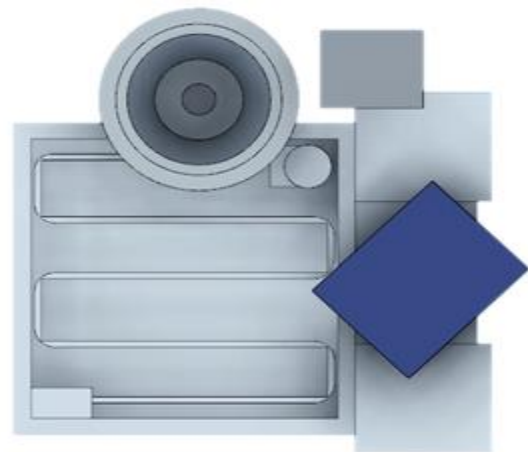


Fig 2:- Top View of Machine (AMBM- Automatic Mysore Bonda Making Machine) is a Top Plan View of the Doughnut Making Machine

➤ *Background Invention*• *Field Invention*

This invention relates to automatic mysore bonda making machine by solar energy adapted for use on table-top or counter top in places as lunch counters, grocery store like in wic mysore bondas are sold in moderately large volume.

• *Prior Art*

Mysore bondas making machines are not available in market but it is large, bulky, expensive and adapted to produce mysore bondas in large quantities or they have been small manually operated units are adapted for low volume production. Issued to the present inventor, discloses a compact table top automatic mysore bonda making machine by solar energy. We use solar energy for producing power to the source therefore solar energy is converted into electric energy. These machine mainly invented because to decrease the oil contents in food and to decrease the contamination of food from air, and these machine improves the texture of mysore bondas and it produces about 5 dozen to 100 dozen mysore bondas per hour.

### III. RESULTS AND PURPOSE, SIGNIFICANCE STUDY

This solar energy based automatic mysore bonda making machine's design as given above results in conversion of a electrically fabricated mysore bonda making machine into one with solar fabrication. a 3-D image based on insight of the solar based bonda making machine has been described in the experimental design column. The main purpose behind this study is to reduce the cost and maintenance parameters. Indirectly the study gains significance by reducing use of non-renewable sources of energy like electrical energy produced using wind and water energy resources. It stands as a strongly recommended purchase to producers investing in long term bakery and savory manufacturing businesses.

### IV. CONCLUSION

- Manufacturing this solar based automatic mysore bonda making machine increases faster production without lags which occur when machine runs on electricity.
- Less number of machine operators.
- Will be required.
- A much more safer operation is involved, as solar energy doesn't induce any overflow of voltage, short circuits, etc.
- Solar based machine equalizes the overall costs of running machine on electricity (power bills).
- Solar based automatic bonda making machine promotes use of renewable source of energy in equipment used in food industry.

### REFERENCES

- [1]. Baldi, p. and Brunak, s. (2002). Bioinformatics: a machine learning approach. Cambridge, This book offers a good coverage of machine learning approaches.