

**SOLAR VEGETABLE CUTTER**

<sup>1</sup>B.SURESH RAM, <sup>2</sup>P.MAHESH BABU, <sup>3</sup>K.RAVI KIRAN,<sup>4</sup>VAMSHI  
KRISHNA,<sup>5</sup>ROHITH PASHAM

<sup>1</sup>Assoc.professor, ECE Department,CMR College of Engineering & Technology

<sup>2</sup>Asst.professor, MECH Department,CMR College of Engineering & Technology

<sup>3</sup>Asst, professor, ECEDepartment,CMR College of Engineering & Technology

<sup>4-5</sup>B-TECH,Dept.of CIV, CMR COLLEGE OF ENGINEERING & TECHNOLOGY

**Abstract**

The investigation on the existing vegetable cutting machine reviews the following drawbacks such as high investment cost, the contamination, additional manpower and time consumption caused by manual processing. The setup involves a container and it carries the cutting blades at its bottom and an steel plate for providing high pressure is mounted rigidly on the container and the plate is activated by means of an rack and pinion circuit, due to activation of an rack and pinion cylinder creates high pressure on to the vegetables and forces the vegetable placed in the container on to. The blades, due to this the vegetables are made into pieces and these are collected at the tray which is placed below the overall setup.

**1. INTRODUCTION**

Machine or device for chopping vegetables and fruits that are to be used directly or canned. Some vegetable cutters are designed for use in the home. Commercial vegetable cutters are used by restaurants and in industry. The simplest type of vegetable cutter consists of a metal screen with blades and two handles. A more complex type is designed not only for cutting but also for shredding, grating, and juicing. In such a device, interchangeable (usually disk) blades are attached to a shaft that is turned manually or electrically. A traveling places when we go to tour we will use this solar vegetable cutter to cut the vegetables easily. Solar vegetable

cutter is low cost and it is use in also in restaurants and any cooking shops. Now a days vegetable are cutting with machines with high cost. Solar vegetable cutter is very useful now s days.

**2. RELATED WORK**

Vegetable cutting in our home is common. Vegetables are cutting with knife it is time taking process. Nowadays many are buying vegetables cutting with high cost. It is more expensive product and they are used with current. The mini vegetable cutter is low cost easily work done. When we going to tour solar vegetable cutter is useful.

**3. IMPLEMENTATION**

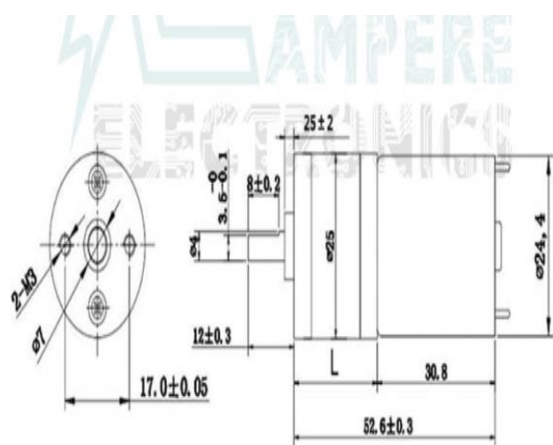
It is based on solar vegetable cutter machine has a wide range of applications

to less work and timeless work .The problem posed that is used for traveling people. used in tours .Solar is used to implement the used to give battery charging .Solar Vegetable cutter is used for low cost product.It simply cut the vegetables with two. blades by rotating with motar .

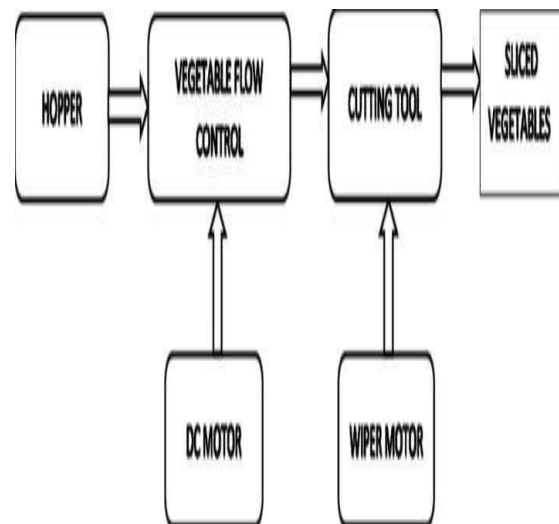
A solar panel refers to a panel designed to absorb the sun's rays as a source of energy for generating electricity or heating. Photovoltaic modules use light energy from the sun to generate electricity through the photovoltaic effect. The majority of the modules use wafer based crystalline silicon cells or thin-film cells. The structural member of a module can either be the top layer or the back layer. Cells must also be protected from mechanical damage and moisture.

#### 4. EXPERIMENTAL RESULTS

##### Motor Diagram and Its Description



##### Flow Chart



#### 5. CONCLUSION

Pedal operated vegetable cutter is useful at homes and medium and small scale hotels. By the using this equipment, vegetable cutting speed is more compare with manual vegetable cutting.It is very low cost by using solar panel .Solar vegetable cutter is is use full for cutting vegetable by less work and save more time.In olden days, knives are used for vegetable cutting, it requires more time for the vegetable cutting. In addition, skill was required for cutting vegetables finely. There is chance of getting njuries while cutting the

vegetables due to negligence or recklessness. Typically, it is very tough for physically disabled people. In present days, life styles of the people are changed. In most of the families, both of the couple are working in the companies. Therefore, they do not have time for cooking so they are depending on the hotels near the working area and living areas. It is one of the reasons for increase in the number of medium and small sized hotels in India. In the larger hotels, they can afford highly advanced latest equipment for cutting vegetables in short time. However, small and medium hotel owners cannot afford such advanced equipment for vegetable cutting.

## **6. REFERENCE**

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