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CLUTCH OPERATED BEVERAGE DISTRIBUTOR MACHINE

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ABSTRACT

We are making a device that will help people to distribute beverage in easier way. In a long line of devotees can be seen sitting together to eat in the langar served by the public. This device will be very cheap as compared to other methods and there will be no back problem to a person while serving the beverage and there is no physical contact between person to person while serving the beverage at any function/weddings in this pandemic situation.

We have used cycle handle and brakes to serve beverage and the device is a steel drum attached to a cart with the wheel and we have attached tap to the drum which we can operate with help of two-cycle brakes in this module we can serve one person to another person with minimal efforts.

Indians are known for their keen sense of 'jugaad' or making the most out of whatever resources are available to them. This skill is not just a one-day thing but something that people develop over a lifetime. The cart is very useful for serving liquid items in a fast and easy way. It will be easier for people to have a beverage in their bowls without any effort.

1. INTRODUCTION

We are introducing a device which can distribute beverages without touching the bucket by the spring valve mechanism with the help of a bucket which is full of beverage than it is distributed to the peoples on the occasion of wedding and langar Khana etc. and in this device, only one person can distribute beverage to hundred peoples in the weddings/langar Khana.

This system, we have used cycle handle and brakes to serve beverage and the device is a steel drum attached to a cart with the wheel and we have attached tap to the drum which we can operate with help of two-cycle brakes in this module we can serve one person to another person with minimal efforts and we can keep a distance from the devotes due to social distance since the pandemic has changed our daily lifestyle habits and the way we go about our task and this innovation may be making life easier for the person serving beverage as well as the person on the serving and of the drink. And time will be not wasted while serving the beverage.

There is a manually operated lever used to open the tap. A caster is provided on clutch operated machine for easier movement between the rows for serving the beverage. There is a spring tap to dispense beverages in a bowl. There is a cycle handle that is used for directional movement of the wheel cart. The steel container was placed on a cart to store the liquid material inside it. The tap is fitted on a steel container on A drum (also called a barrel) is a cylindrical shipping container used for shipping bulk cargo. Drums can be made of steel, dense paperboard (commonly called a fiber drum), or plastic, and are generally used for the transportation and storage of liquids and powders. The primary use of a steel barrel is to safely store or transport goods, but within this, steel barrels are employed by companies to fulfill several different functions. The most common uses for steel barrels include: Storing liquids (including water).the bottom of it.

The whole cart is fabricated of Stainless-steel square hollow bar material. The platform on which the steel container is placed is provided with an elevated spring for adjusting the height of the container according to the needs. This clutch-operated distributor machine can widely be used in places where people are having food in huge capacity. The cart is very useful for serving liquid items in a fast and easy way. It will be easier for people to have beverages in their bowls without any effort.

2. LITERATURE REVIEW

There is a manually operated lever used to open the tap. A caster is provided on clutch operated machine for easier movement between the rows for serving the beverage. There is a spring tap to dispense beverages in a bowl. There is a cycle handle that is used for directional movement of the wheel cart. The steel container was placed on a cart to store the liquid material inside it. The tap is fitted on a steel container on the bottom of it.

The whole cart is fabricated of Stainless-steel square hollow bar material. The platform on which the steel container is placed is provided with an elevated spring for adjusting the height of the container according to the needs. This clutch-operated distributer machine can widely be used in places where the people are having food in huge capacity. The cart is very useful for serving liquid items in a fast and easy way. It will be easier for people to have a beverage in their bowls without any effort.

Objective:

1) To make it a fast and easy process.
2) It required very less maintenance.
3) To make very less wastage of beverage to fabricate user friendly machine.
4) A person can operate this machine very easily.
5) To improve the efficiency of worker.

3. METHODOLOGY

There is a manually operated lever used to open the tap. A caster is provided on clutch operated machine for easier movement between the rows for serving the beverage. There is a spring tap to dispense beverages in a bowl.

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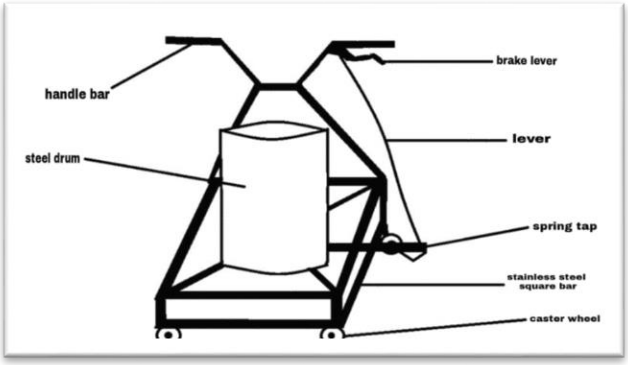

4. DETAILS OF DESIGN

Drums can be made of steel, dense paperboard (commonly called a fibre drum), or plastic, and are generally used for the transportation and storage of liquids and powders. Drums are often stackable and have dimensions designed for efficient warehouse and logistics use. This type of packaging is frequently certified for transporting dangerous goods. Proper shipment requires the drum to comply with all applicable regulations.

The functioning of brake levers is very simple. If we talk about a mechanic brake lever, first of all, we need to push it. This action stretches a metallic sane that permits the two brake pads put pressure on one of the two-wheel rims. The functioning of hydraulic brakes is a bit different. Here in order to stop the bike, the brake lever they are used for structural purposes such as making industrial sheds. Rectangular MS pipes can be used for making strong frames and the shed can be completed with steel sheets. They are used for making bridges pushes special oil making pressure and making the bike slow down or stop.

A brake lever wire is a mechanical device that inhibits motion by absorbing energy from a moving system. Brakes are critical for slowing or stopping a moving vehicle, wheel, axle, or to prevent its motion, most often accomplished by means of friction. A brake cable connects a brake handle, pedal, or lever to a vehicle's braking mechanism.

Spring check valves typically have hollow bodies and a large stopper, which receives constant pressure from a spring. When gas or fluid flows forward at sufficiently high pressure, the force will overcome the pressure from the spring and cause the stopper to open, allowing the desired flow.

A bicycle handlebar is the steering control for bicycles. It is the equivalent of a tiller for vehicles and vessels, as it is most often directly mechanically linked to a pivoting front wheel via a stem which in turn attaches it to the fork.

Common inexpensive casters may include a brake feature, which prevents the wheel from turning. This is commonly achieved using a lever that presses a brake came against the wheel.

5. ADVANTAGES AND DISADVANTAGES

Advantages:

1. Easy to operate
2. Simple in construction
3. Portable
4. Fewer worker requires
5. Less wastage of beverage

Disadvantages:

1. Requires more space
2. High initial cot
3. Regular maintenance required

Applications:

The machine is useful for distribution of beverages at weddings, rows of devotes in temples and other pilgrimages, and other places where people sit together in rows.

6. CONCLUSION

This machine is very useful as it reduces human efforts and consumes very less time. The manufacturing cost of the machine is very cheap and also easy to maintain. We are making a device that will help people to distribute beverages in an easier way. The machine is very useful for places where a large number of people have food at the same time.

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