

Non Electric Vegetables Fridge

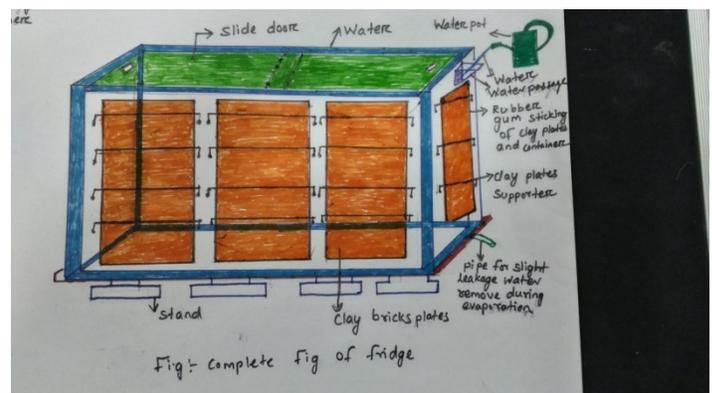
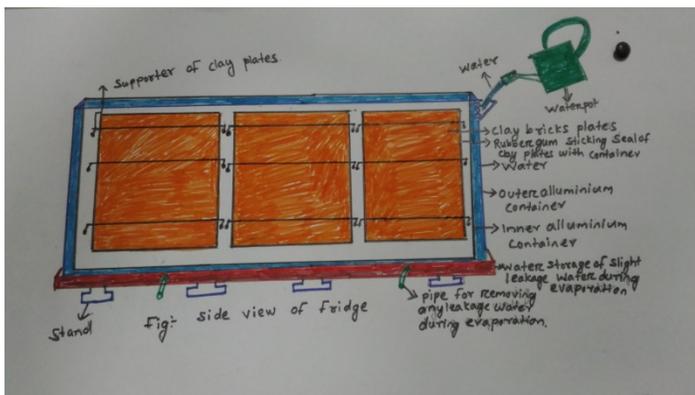
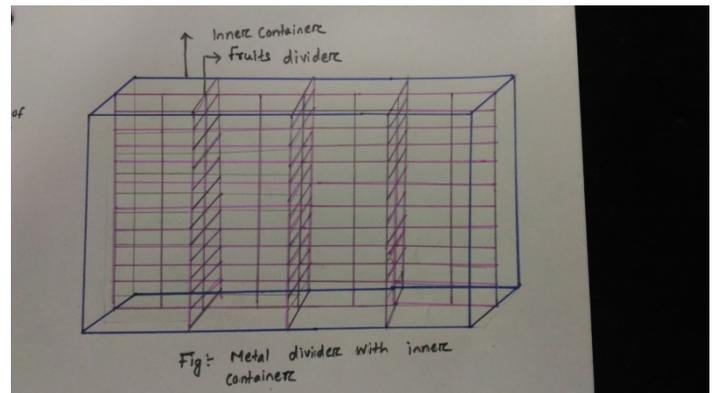
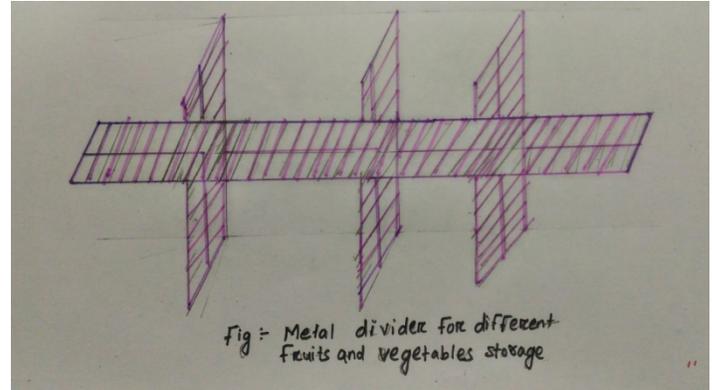
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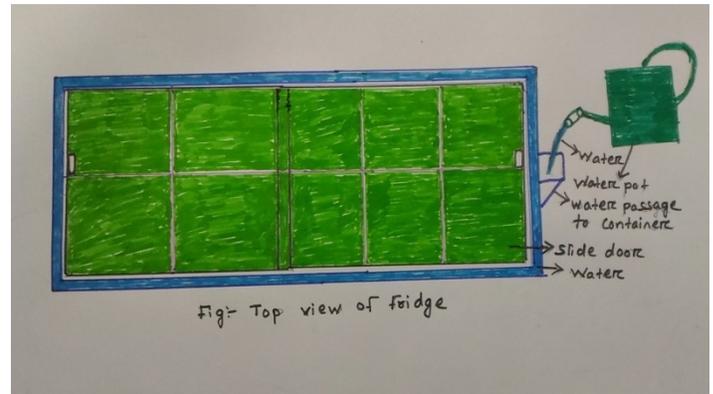
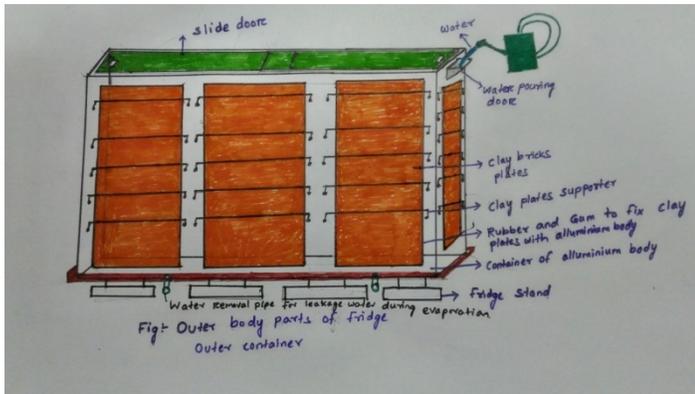
Abstract:- A clay refrigerator is an evaporative cooling refrigeration device which does not use electricity. Its also good for environment. The cooling function is based on the principle of evaporative cooling and is working on hot and dry climate. In this project I have designed model which is use for long term by the combination of clay plates and aluminum plates. Clay plates can be easily replaceable. The refrigerator working based on evaporative cooling.

INTRODUCTION:- This refrigerator is a simple cheap way to keep food (vegetable and fruits) fresh. The function is based on the principle of evaporative cooling. In this project we will use clay bricks plates for evaporative cooling and aluminum plates. Aluminum plates is for long term use and clay plate replace time to time.

Functionality and construction:- The basic principle for the functionality of the clay pot cooler is the principle of evaporative cooling. The evaporation of water require energy which is taken from the ambient air leading to fall in air temperature. We design rectangle shape refrigerator with aluminum plates and we will fit clay bricks plate on outer area. There will be two layer. One will inner layer completely of aluminum plates, outer layer fitted with clay bricks plates, one separator and slide door.

- 1) One rectangle shape container made using aluminum plate which will be inner container.
- 2) A metal separator fitted in inner container for different vegetables.
- 3) One outer container made also from aluminum plates with rectangle shape cut surface.
- 4) We will fit clay bricks plates on rectangle shape cut area.
- 5) Then will pour water into the gap between two container which is used for storing water. Due to evaporation cooling atmosphere created.





Positive impact of the clay pot cooler:-

- 1) Rise of food security.
- 2) Opportunity of storing food.
- 3) No use of electricity.
- 4) Good for vegetable and fruits seller

REFERENCES

- 1) Fridge for the Poor. United Nations Development Programme

AUTHORS

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