

Design of a Mobile Cart for Preparing Egg Based Snacks



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Abstract:

The great pleasure of cooking and serving gets multiplied with an aesthetic, ergonomic and functional mobile cart for preparing egg based snacks. In the present scenario, carts are available for various purposes, but space saving designs which are efficient, visually appealing and comfortable are not available. The simple principle of a mobile cart is to efficiently make use of space which can be divided into separate units or compartments. Mobile cart provides a solution for the entire cooking and serving needs without occupying a large space with innovative design.

A comprehensive study of the design of mobile cart focusing on product usage was carried out. Mobile carts were designed for ease of cooking, serving and to provide storage facilities in a limited space. It consists of a cook top, wash basin, storage space for both consumable and non-consumable items, egg tray, LPG cylinder, water can, dustbin, drawers and foldable dining table. To determine the needs of the user, data collection was done through literature survey and ethnography study. Data analysis was done through QFD and PDS and later concept generation was done through brain storming. Five concepts were shortlisted and feedback was taken for better results and later, Weighted ranking method was used for selecting the final concept.

The final concept developed could perform different functions. The product could be used for preparing and serving egg based snacks to the customers in road side. A full scale prototype of the mobile cart was manufactured in which some of the parts used were readily available in market. User feedback was taken to validate the design and the results were positive and satisfactory.



Various concepts of mobile cart for egg based snacks



Final concept