

Charcoal Grill Having Re-Chargeable Charcoal Feed for Continuous Operation

Researchers at the University of South Florida have developed a grill accessory to add coal to the charcoal grill without disturbing the cooking process.

Charcoal grills have a bottom part that holds charcoal therein and a lid that closes so that the grilling may take place in a wind-free environment. The food to be grilled is deposited on the top of a grille that is positioned above the charcoals. The grille is mounted to the bottom part of the structure so that it and the food placed on the top of it is not disturbed when the lid is opened or closed. Charcoal grills need regular refilling of coals to barbeque over a long period of time. The refilling process requires the user to stop barbequing, open the grill releasing valuable heat, and remove the grate with the food on it. Hence, there is a need for an invention that can feed charcoal with removing the grate.

Researchers at USF have created an accessory for the charcoal grill. The invention includes a base for holding charcoal, a lid mounted to the base, and a ram that shoves charcoal from the box into the grill. The invention enables a charcoal-fired grill to continue uninterrupted operation even when a charge of charcoal in the grill has been fully or partially consumed without lifting the lid of the grill. This design can be modified to include other grill makes and models. Additionally, wood chips could be delivered in the same manner as charcoal.

ADVANTAGES:

- Refill a charcoal grill with coals and/or wood chips
- Cooking process need not be halted
- Can be adapted for integration with any grill make or model

Charcoal Grill Accessory



An Image of Charcoal Grill and the Side Arm

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