(No Model.)

C. E. RAPER.

NUT WARMER.

No. 471,021. Patented Mar. 15, 1892.

Fig. 1.

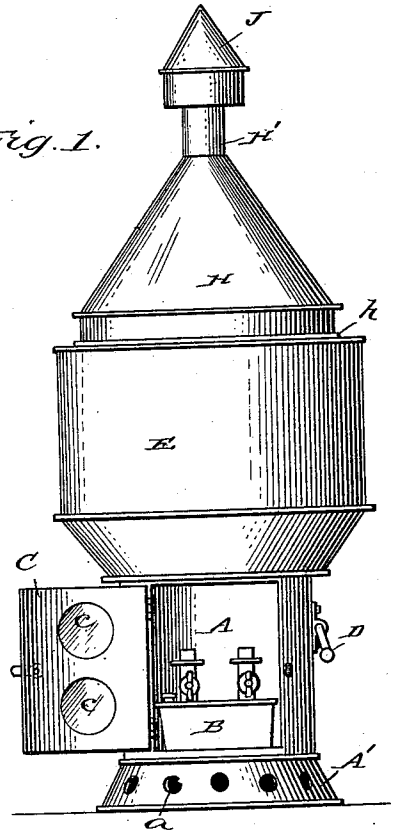


Fig. 2.

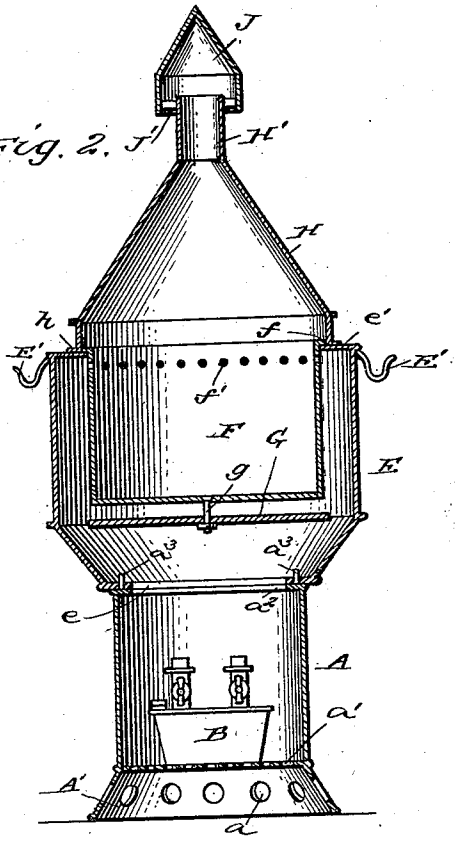
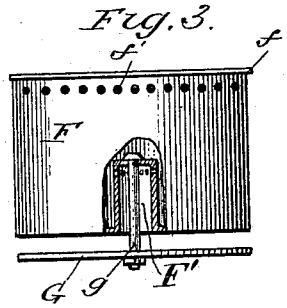


Fig. 3.



WITNESSES:

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CHARLES E. RAPER, OF BIG RAPIDS, MICHIGAN.

NUT-WARMER.

SPECIFICATION forming part of Letters Patent No. 471,021, dated March 15, 1892.

Application filed February 25, 1891. Serial No. 382,816. (No model.)

To all whom it may concern:

Be it known that I, CHARLES E. RAPER, of Big Rapids, in the county of Mecosta and State of Michigan, have invented a new and Improved Nut-Warmer, of which the following is a full, clear, and exact description.

My invention relates to improvements in that class of warmers which are used for warming peanuts, chestnuts, and other similar commodities; and the object of my invention is to produce a simple and inexpensive warmer which is light and durable, which occupies but little space, is attractive and easily managed, and conveniently warms the nuts without danger of burning them.

To this end my invention consists in a nut-warmer constructed substantially as hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a front elevation of the warmer, embodying my invention, with the door open. Fig. 2 is a vertical cross-section of the same, and Fig. 3 is a detail side elevation of the oven provided with a center tube.

The warmer is made, preferably, of sheet metal and is provided with a hollow base A, which has a flaring bottom A′ to form a pedestal, the pedestal being provided with perforations *a*, as shown, and above the perforations is a perforated floor *a′*, which is adapted to support an oil-stove B, and the upper end of the base A is provided with an inwardly-extending flange a^2, having projecting vertical pins a^3 therein which support the drum, as described below.

The base A is provided in front with a door C, having mica-covered holes *c* therein, so that the flame of the stove may be observed without opening the door, and the base has also handles D on opposite sides to enable the warmer to be easily moved. The drum E is considerably larger than the base A; but its lower end is reduced, so that it will fit nicely upon the base, and it has at the bottom an inwardly-extending annular flange *e*, which fits upon the flange a^2 of the base and which has perforations to receive the pins a^3 of the base, so that when in position the drum will rest firmly in place.

The drum has an inwardly-extending annular flange *e′* at the top to support the oven F, and on the outer sides of the drum are hooks E′, upon which paper bags may be hung in order that they may be conveniently reached when they are to be filled. The oven F is closed on all sides, except the top, and is provided with a flange *f* around the upper edge, which flange rests upon the flange *e′* of the drum E, and the oven F is enough smaller than the drum E, so that there will be a space between the two for the free circulation of heat.

The oven F is provided near the top with perforations *f*, so that the surplus or waste heat from the drum E may pass through the perforations and escape through the chimney, as described below. It will be observed that the oven F is suspended directly above the oil-stove B, and in order that the nuts in the oven may not be burned a plate or disk G is suspended from the bottom of the oven by a bolt or rivet *g*, and the plate is of the same size as the oven-bottom, so that the heat from the stove cannot strike directly upon the oven-bottom, but will be deflected by the disk and will pass upward around the sides of the oven and between the disk and the oven-bottom, so that the nuts in the oven will be evenly warmed, but cannot easily be burned.

As shown in Fig. 3, the oven is provided in the center and at the bottom with an upwardly-extending tube F′, which is perforated on the sides and is closed at the top, and the deflecting-disk G is suspended from the top of this tube. The tube thus provides means for admitting heat to the center of the oven, as the heat will pass in above the disk G and up through the tube and the perforations therein, so that the nuts in the oven will be warmed in the center, as well as at the bottom and sides of the oven.

The oven F is covered by a dome H, which has a flange *h* at the bottom to rest upon the flange *e′* of the drum E, and the dome is conoidal in shape and terminates at the top in a chimney H′, which chimney is surmounted by a cap J, which is secured to the chimney by means of pins J′, connecting the lower inside portion of the cap to the outer surface of the chimney, and it will thus be seen that the smoke and heat cannot be thrown upward

from the chimney-top, but will be deflected so as pass outward between the sides of the cap and the outer portion of the chimney.

From the foregoing description it will be seen that the warmer occupies but little space, that it may be conveniently taken apart to be cleaned or shipped, and that the nuts may be efficiently heated without burning. It is operated by simply removing the dome H and filling the oven with the nuts and then replacing the dome, lighting the oil-stove and closing the door C of the base, and by regulating the flame of the stove the nuts may be kept at any desired temperature. The smoke and gases from the stove will pass upward through the perforations of the oven and will escape through the chimney without in any way affecting the nuts.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

1. A nut-warmer comprising a hollow base having a door, a removable drum mounted upon the base, an oven suspended within the drum, and a dome mounted upon the drum to cover the oven, said dome terminating in a chimney, substantially as described.

2. A nut-warmer comprising a ventilated base having a perforated floor and a suitable door, a removable drum mounted upon the base, an oven suspended within the drum and having a plate or disk suspended beneath its bottom, and a dome to cover the oven, said dome terminating at the top in a chimney, substantially as described.

3. A nut-warmer comprising a ventilated base having a perforated floor and a suitable door, a drum mounted upon the base and provided with an inwardly-extending flange at the top, a flanged oven suspended from the flange of the drum, provided with perforations near the top and having a disk suspended beneath its bottom, and a dome on the drum and terminating in a chimney, substantially as described.

CHARLES E. RAPER.

Witnesses:
C. P. MARKHAM,
CHARLIE GAY.