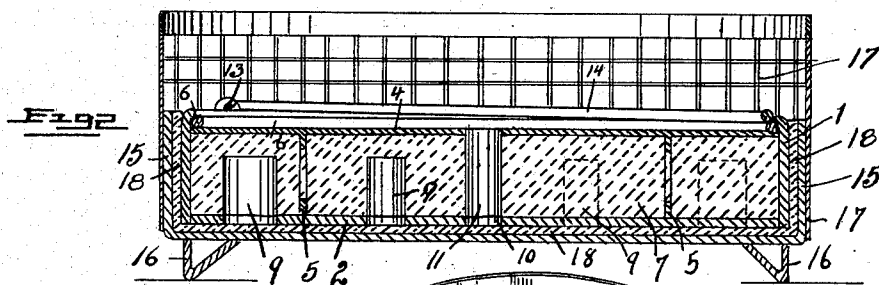
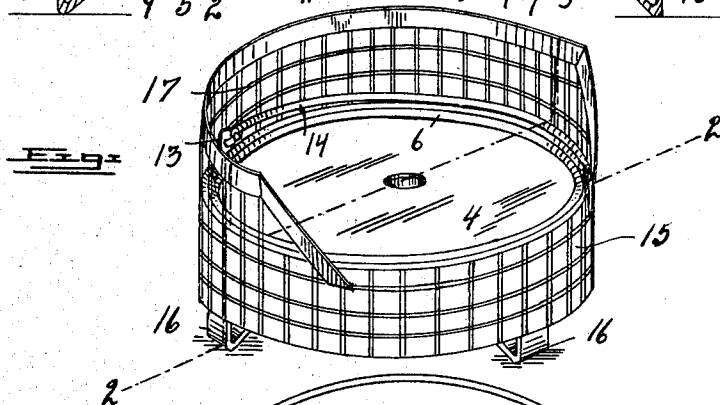
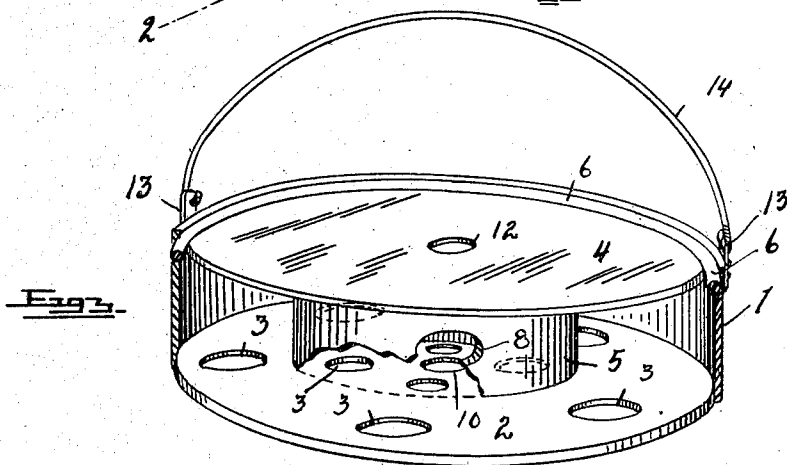


No. 738,573.

PATENTED SEPT. 8, 1903.

J. RICH.
HEAT RETAINING PAD.
APPLICATION FILED MAR. 2, 1903.

NO MODEL.



Witnesses
P. C. Hall.
E. C. Wright

Inventor
Jerome Rich
By C. S. Wheeler & Co.
Attorney

UNITED STATES PATENT OFFICE.

JEROME RICH, OF JACKSON, MICHIGAN.

HEAT-RETAINING PAD.

SPECIFICATION forming part of Letters Patent No. 738,573, dated September 8, 1903.

Application filed March 2, 1903. Serial No. 145,648. (No model.)

To all whom it may concern:

Be it known that I, JEROME RICH, a citizen of the United States, residing at Jackson, in the county of Jackson, State of Michigan, have invented certain new and useful Improvements in Heat-Retaining Pads; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

This invention relates to a portable heat-retainer; and it consists in the construction and arrangement of parts hereinafter fully set forth, and pointed out particularly in the claims.

The object of the invention is to provide simple and efficient means for retaining heat, wherein the arrangement is such as to enable the retained heat to be given off or imparted to a dish of food or the contents of a coffee-pot or other retaining vessel, whereby said contents may be maintained at a high degree of temperature for a considerable time after its removal from the stove.

The above object is attained by the structure illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of my improved heat-retainer and the supporting-basket, in which it is contained when in use on the table. Fig. 2 is a transverse section, as on dotted lines 2 2 of Fig. 1. Fig. 3 is a fragmentary view in perspective of the parts forming the heat-retaining pad, the heat-retaining substance or material with which said pad is filled being omitted.

Referring to the characters of reference, 1 designates a receptacle formed, preferably, of sheet metal and preferably of annular shape. This receptacle is provided with a metallic bottom 2, having a plurality of apertures 3 therein. A circular disk or plate 4 covers the receptacle 1 and affords a surface upon which a dish, vessel, or other article may be placed to be heated. This disk 4 is provided with a depending circular wall or flange 5, whose lower edge rests upon the bottom 2 of the receptacle, so as to support the disk or

plate 4 slightly below the top of the annular wall of said receptacle. Lying against the inner face of said wall at the top is a retaining-strand 6, which is formed, preferably, of spring-wire, which rests upon the margin of the plate 4 and serves to more securely retain it in place. The receptacle 1 is filled with a suitable heat-retaining substance 7, preferably a proper mixture of sand and cement, and while said filling substance is in a plastic state the plate 4 and its depending wall 5 are placed in position in the receptacle so that the cement will form around said wall and unite through the apertures 8 therein, whereby said wall becomes firmly embedded and anchored in said cement, preventing a possible loosening of the plate 4, to which said wall is secured. The outer margin of said plate rests upon the cement filling and is supported thereby.

Formed in the bottom of the cement filling in line with the apertures 3 in the bottom 2 are the cells 9, into which the heat and flame enter when the heat-retaining pad is over the fire and which serve to more quickly heat the filling to a uniform temperature. In the center of the bottom 2 is a relatively small aperture 10. Communicating with said aperture is a central opening 11 through the cement filler, whose upper end communicates with the central aperture 12 in the top plate 4. By means of this central aperture a flue is provided for the caloric current, which assists in more quickly heating the center of the retaining-pad and at the same time affords means for radiating the heat from the center of said pad and directing it against the bottom of a dish or receptacle resting upon the plate 4.

For the purpose of facilitating the handling of the heat-retaining pad, ears 13 are provided on opposite sides of said pad, into which the ends of the bale 14 are engaged, to enable said pad to be lifted on or off the stove. For the purpose of using this heat-retainer at the table during a meal, so that the coffee-pot or other vessel be placed upon it and the contents kept hot, a basket 15 is provided having suitable supporting-legs 16, which raise the bottom thereof above the surface of the table, into which the heat-retaining pad may be placed, as shown in Figs. 1 and 2. Surrounding the

basket, and extending upon three sides above the top thereof, is a kind of wicker-work 17, which serves as a guard to retain a dish or vessel in place upon the plate 4. This
 5 exterior retaining-basket is essential to enable the use of the heat-retaining pad at the table, and to prevent undue radiation of heat from the bottom and sides of said basket it is provided at the bottom and sides with a
 10 lining 18 of asbestos and other non-conductor of heat, whereby undue radiation of heat from the heat-retaining pad is prevented except from the upper surface thereof, and the heat so radiated is utilized by directing it against
 15 the bottom of a dish or vessel resting upon the plate 4.

It will be noted that when the heat-retaining pad is placed in the basket 15 the cells 9 in the bottom are closed by the lining of said
 20 basket, whereby an undue cooling of the pad is obviated by preventing the escape of heat from said cells.

While I have described this device as a heat-retainer to be used for domestic purposes, it is evident that it may be made to
 25 serve as a bed-pan and as a foot-warmer as well as for the purposes described.

Having thus fully set forth my invention, what I claim as new, and desire to secure by
 30 Letters Patent, is—

1. In a device for the purpose set forth, the combination of a metallic receptacle, a filling of material adapted to retain heat, placed in said receptacle in plastic form, a flat metallic
 35 plate lying upon and covering the entire top of said filling, and means for retaining said covering-plate in position.

2. In a heat-retainer, the combination of a metallic receptacle, a filling of heat-retaining material within said receptacle, a plate for
 40 covering the top of said receptacle having a depending vertical wall, said wall being surrounded by and embedded in the filling material.

3. In a device for the purpose set forth, the
 45 combination of a metallic receptacle having a series of apertures through the bottom thereof, a filling of heat-retaining material adapted to be placed in said receptacle while in a plastic state, the bottom of said filling having cells
 50 formed therein in line with the openings in the bottom of the receptacle, a covering-plate, an annular wall depending from said plate and embedded in the filling substance.

In testimony whereof I sign this specification
 55 in the presence of two witnesses.

JEROME RICH.

Witnesses:

EDWARD CROWE,
 FRANK EGGLESTON.