

W. T. CONVERSE.

HEAT RETAINER.

APPLICATION FILED MAY 23, 1908.

943,004.

Patented Dec. 14, 1909.

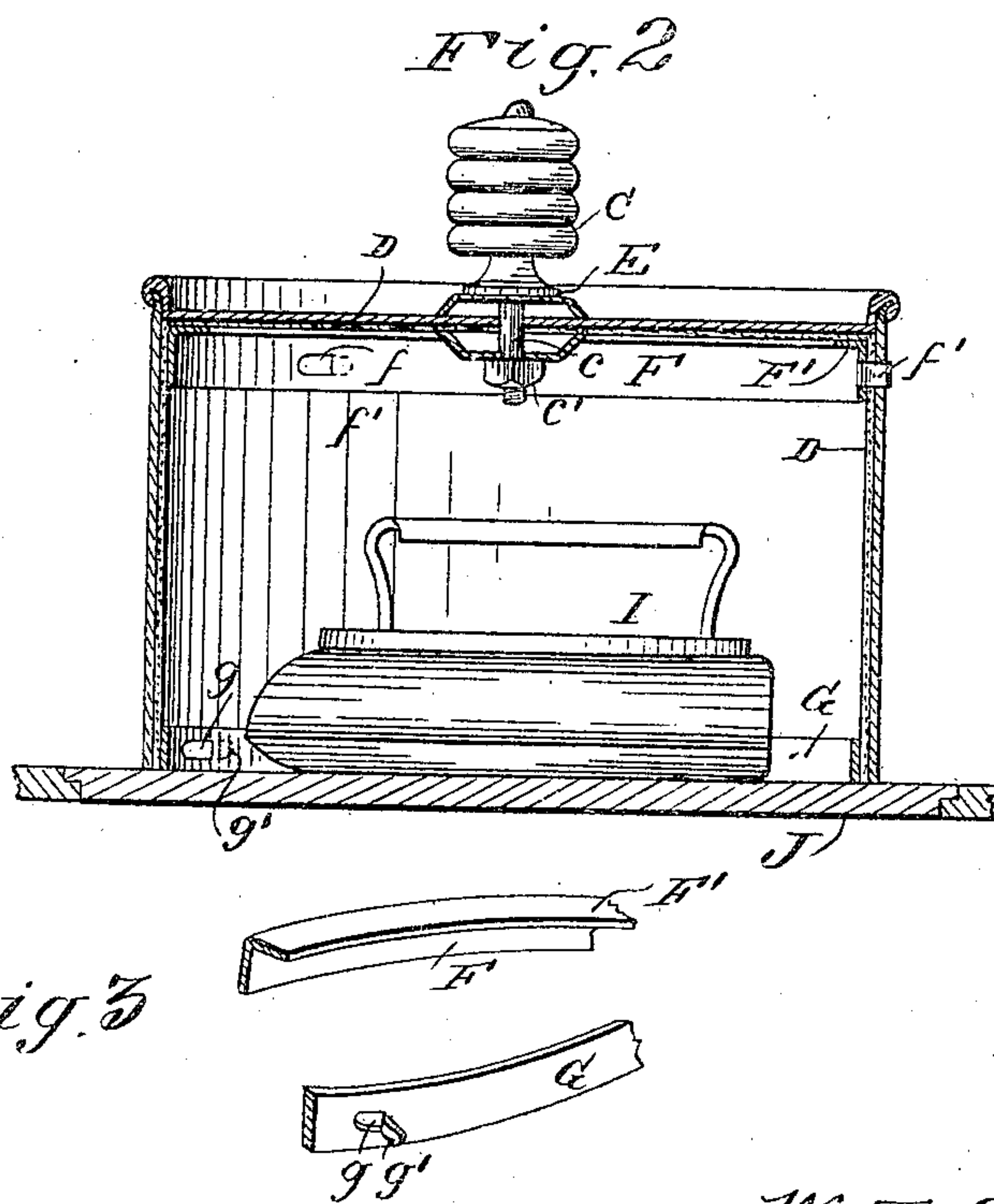
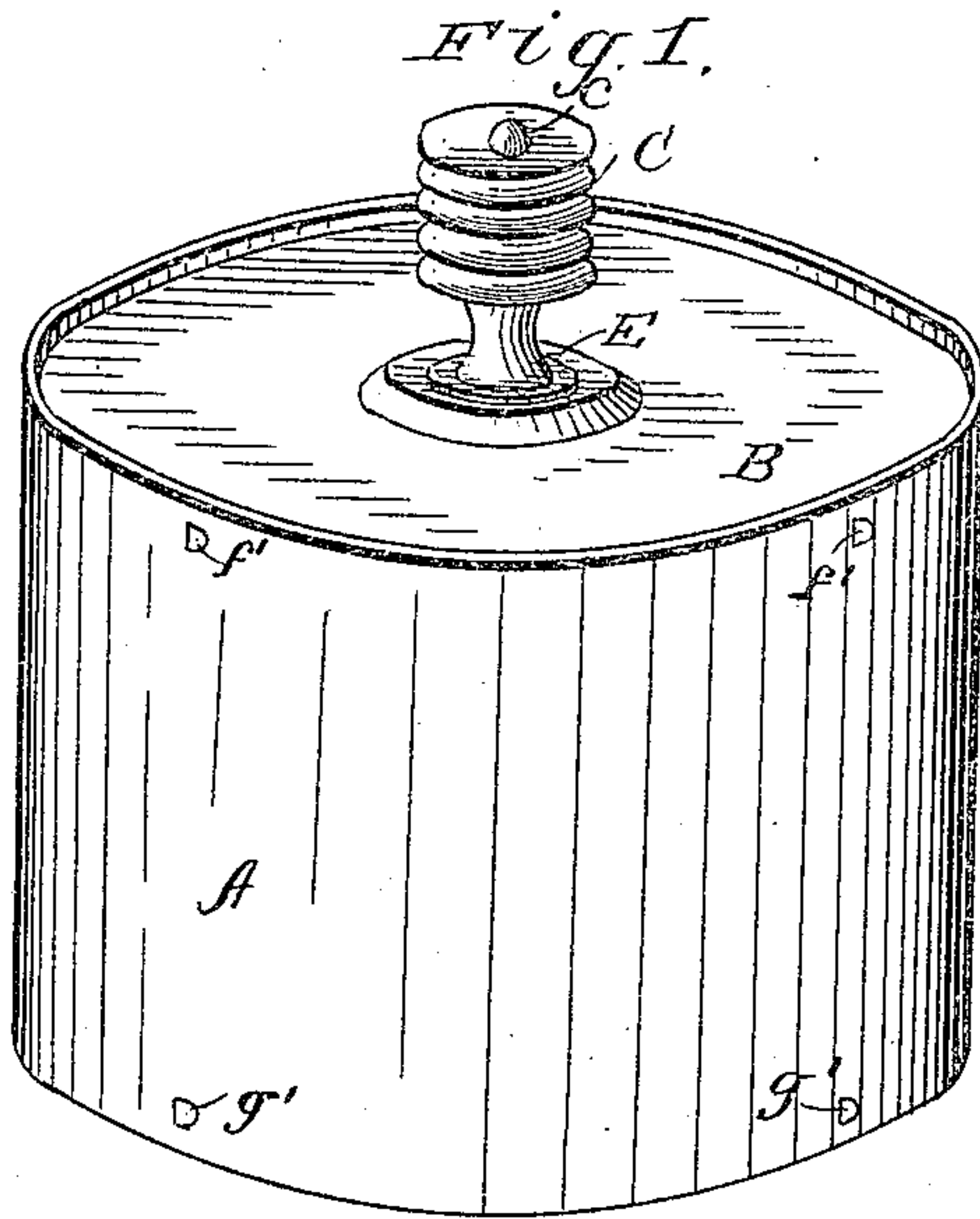
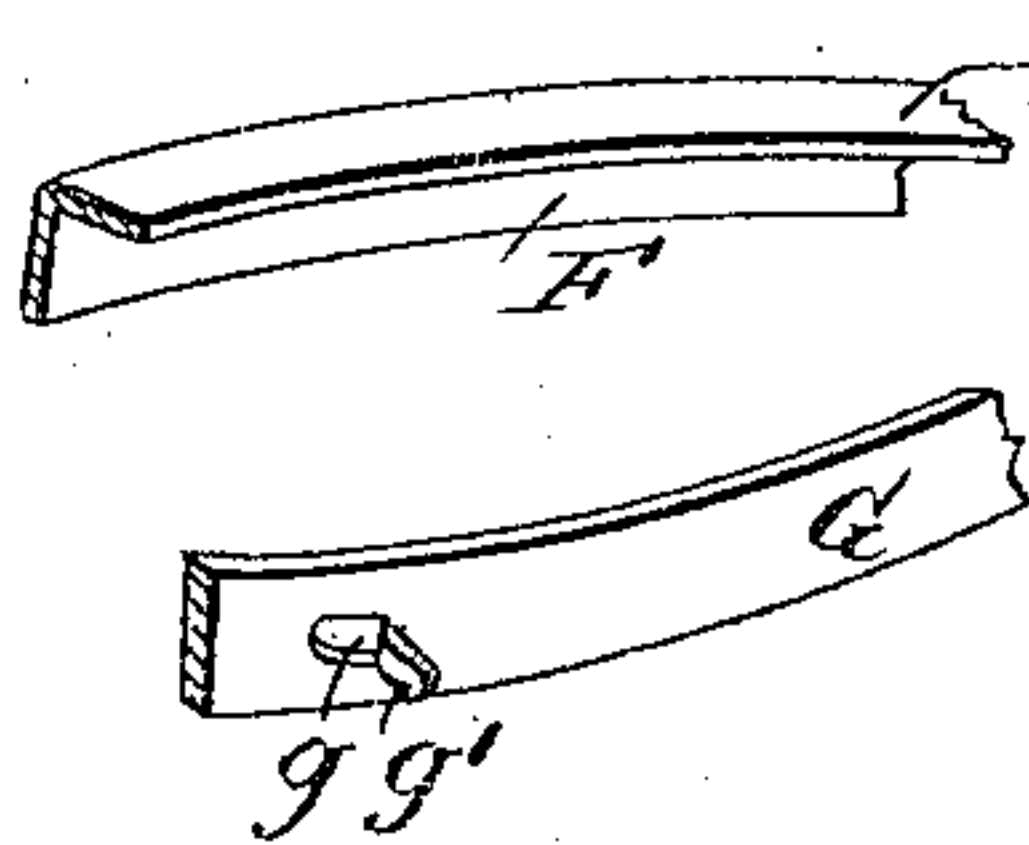


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

WARREN THEODORE CONVERSE, OF AURORA, ILLINOIS.

HEAT-RETAINER.

943,004.

Specification of Letters Patent. Patented Dec. 14, 1909.

Application filed May 23, 1908. Serial No. 434,692.

To all whom it may concern:

Be it known that I, WARREN THEODORE CONVERSE, a citizen of the United States, residing at Aurora, in the county of Kane and State of Illinois, have invented certain new and useful Improvements in a Heat-Retainer, of which the following is a specification.

This invention relates to improvements in devices for retaining the caloric emanating from gas or other stoves, or from any source from whence heat is desired.

This invention further relates to the mechanical improvements employed for the purpose above stated, which consists of a drum, lined with a non-conducting material, provided with means for retaining the non-conducting material within the drum.

The object of the present invention is to retain the heat from a stove within a given space, so that a larger portion of the heat may be more readily absorbed by sad irons, or any other article that it is desired to be heated.

This invention retains all, or most of the heat emanating from the plate or jet of a stove over which it is placed and permits the heat so confined to permeate the irons, or other article to be heated, from all directions. By this means an article may be heated more expeditiously than by the old method, thus saving a large per cent. of the fuel usually required to procure the desired temperature in the article being heated, as the heat arising from said jet or plate cannot readily escape from the drum.

In the drawings, corresponding characters of reference indicate similar parts in all the figures.

Figure 1, is a perspective view of the device for retaining heat around an article. Fig. 2, is a transverse vertical section of my improved device with a sad iron therein resting on a stove plate. Fig. 3, represents perspective views of a portion of the bands for retaining the nonconducting material within the drum.

The improved device for retaining heat consists of a drum A, having a top B, and walls of a nonconducting material D, inside of said drum. The nonconducting material prevents radiation of heat units into the external atmosphere, to a large extent, consequently, the heat retained within said drum A, will be absorbed by the articles within

said drum, such as a sad iron, as iron being a good conductor of heat, will quickly absorb the heat retained within the drum.

On the outside of the drum is a washer of nonconducting material E, which is secured to the top B, thereof by a bolt c, said bolt c, also retains the knob C, and is held firmly in position by a nut c'.

To retain the nonconducting material D, in place within the drum, metallic bands F and G, are employed. These bands are arranged at the extreme top and bottom of said drum. The metallic band F, is provided with an annular flange F', integral with said band F, for assisting in supporting the nonconducting material under the top B, of the drum. The metallic bands F, and G, are secured within the drum A, by means of straps f', and g', which are punched out of the metal as indicated at the perforation f and g. A portion only of the metal is punched out, leaving the portions f', and g', aforesaid. Said portions extend through the nonconducting material D, and the drum A, and are bent over the latter, as indicated at the right hand side of Fig. 2, from the metallic band F. The drum A, is shown in the drawing as seated on a stove lid, with a sad iron resting thereon.

I do not limit this invention to the exact construction of the device herein shown and described, as many changes as regards the contour and arrangement of parts can be made, and yet come within the scope of this invention.

Having described this device, that which I desire to secure by Letters Patent is:

1. A device of the character described, consisting of a drum, adapted to be placed upon a stove lid, a non-conducting material secured to the inner side walls and top of said drum, a metallic band provided with an annular flange with straps thereon for securing said non-conducting material to the upper portion of said drum said straps passing through said non-conducting material and walls of said drum, and a handle secured to the top of said drum for the purpose shown and described.

2. A device of the character described, consisting of a drum, the lower portion of said drum being open, a non-conducting material completely covering the inner walls of said drum, a metallic band provided with an annular flange, straps on said metallic

band, said straps passing through the non-conducting material and wall of said drum, securing said non-conducting material at the upper portion of said drum, a metallic band
5 with straps thereon, said straps passing through said non-conducting material and walls of said drum at the lower portion thereof for the purpose of securing said non-

conducting material to said drum and a handle secured to upper portion of said drum. 10

In testimony whereof I affix my signature, in presence of two witnesses.

WARREN THEODORE CONVERSE.

Witnesses:

M. O. SOUTHWORTH,
M. S. HENDRICKS.