No. 807,836. PATENTED DEC. 19, 1905.

C. MADEIRA.

DOMESTIC BOILER.

APPLICATION FILED JAN. 27, 1905.

Fig. 1.

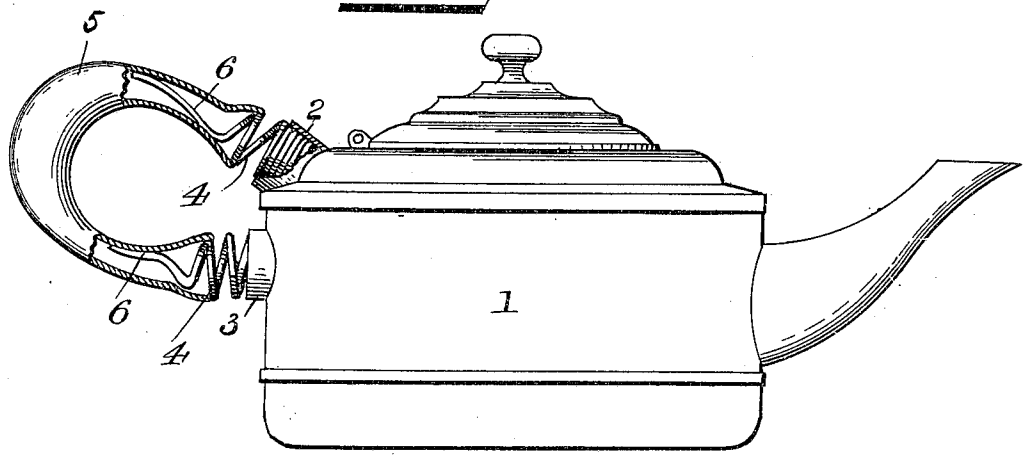
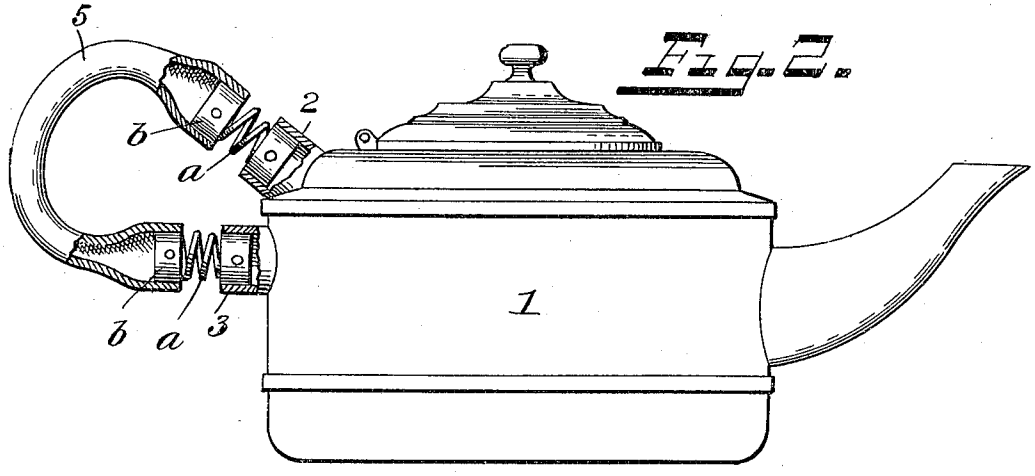


Fig. 2.



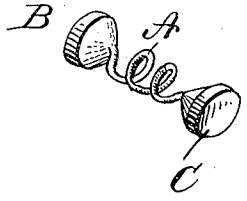


Fig. 3.

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DOMESTIC BOILER.

No. 807,836. Specification of Letters Patent. Patented Dec. 19, 1905.

Application filed January 27, 1905. Serial No. 242,845.

To all whom it may concern:

Be it known that I, CHARLES MADEIRA, a citizen of the United States of America, residing at Meriden, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Domestic Boilers, of which the following is a specification.

This invention relates to pots and kettles, and particularly to domestic boilers; and it has for an object novel means for insulating a handle against heat.

It is also an object of the invention to provide novel means whereby an air insulation is formed adapted to act in conjunction with the insulation proper.

A further object of the invention is to provide a device of this character that will be simple in construction, efficient in practice, and economical to manufacture.

With the above and other objects in view the invention consists in the details of construction and in the arrangement and combination of parts to be hereinafter more fully described and claimed.

In describing the invention in detail reference will be had to the accompanying drawings, forming part of this specification, wherein like characters of reference denote corresponding parts in the several views, and in which—

Figure 1 is a view in elevation, partly in section, of a kettle showing the invention applied thereto. Fig. 2 is the same as Fig. 1, except a modified form of insulation is illustrated; and Fig. 3 is a view, detached, of a further modified form of insulation.

In the drawings, 1 indicates a kettle of any preferred or ordinary construction and having on the side and top thereof the hollow bosses 2 3, arranged in angular relation one to the other, but on the same vertical plane. The boss 2 extends upward from the top of the kettle on an incline and boss 3 extends horizontally from the side. Of course this specific arrangement can be changed without materially affecting the invention, but the preferred form is as above described. Secured within each of the bosses is an end of a spiral or coil 4 of comparatively rigid metal, while the opposite end of the coil passes within an end of the hollow handle 5. The end 6 of the coil within the handle is so bent as to bear against the lower wall of the handle and then to extend upward to contact with the upper wall. This arrangement acts as a strengthening means or reinforce for the spring, as in ordinary conditions the weight of the kettle or receptacle on the handle would be sufficient to pull the spiral from the handle. In practice it is found desirable to further secure the spiral in place by soldering or brazing, but this is a minor detail or feature of the invention, as any means may be employed that will give satisfactory results.

In Fig. 2 is shown a kettle and handle constructed the same as in Fig. 1. A spiral spring *a* is interposed between the handle and kettle, but in a different manner. The coil *a* has its ends secured to plugs *b*, and said plugs are adapted to fit in the bosses of the kettle and the ends of the handle.

In Fig. 3 is shown a coil somewhat similar to the one disclosed in Fig. 2 with the exception that the coil and plugs are made of one piece. The intermediate portion A is drawn to form the coil, while the end portions B C form the plugs.

In this invention the coil being interposed between the receptacle and handle forms a space for the radiation of heat therefrom and the circulation of air for cooling the coil, and thereby prevents heat from passing from the receptacle up into the handle. The construction and arrangement of the coil is sufficient in itself to act as further insulation.

The above description is thought to make fully apparent the construction and operation of the invention, it being noted that any and all changes may be resorted to that fairly fall within the scope of the claim attached hereto without affecting the value thereof.

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

In combination, a receptacle, hollow bosses on the receptacle, a hollow handle, and coils interposed between the ends of the handle and

the bosses, the ends of the coils fitting within the ends of the handle, and the bosses and held thereby, each of the ends of the coils within the handle being provided with an extension bearing on opposite walls of the handle, said extension projecting at angles to the axes of the coils.

In testimony whereof I affix my signature, in the presence of two witnesses, this 11th day of January, 1905.

CHARLES MADEIRA.

Witnesses:
PLATT W. LYON,
BEULAH M. WORRELL.