

C. L. Taylor and G. C. Setchell's Combined Furnace and Tea Kettle.

PATENTED AUG 30 1870

106889

Fig. 1.

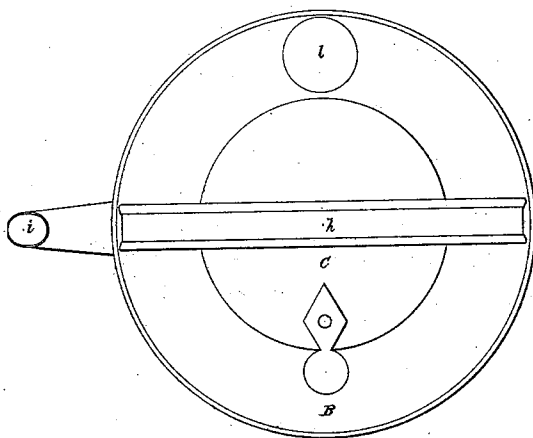


Fig. 3.

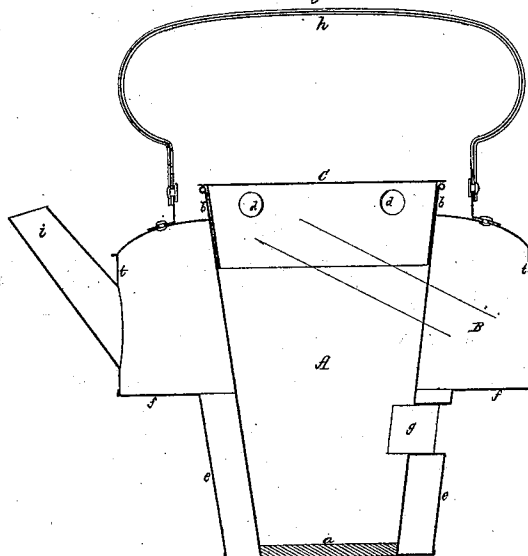


Fig. 2.

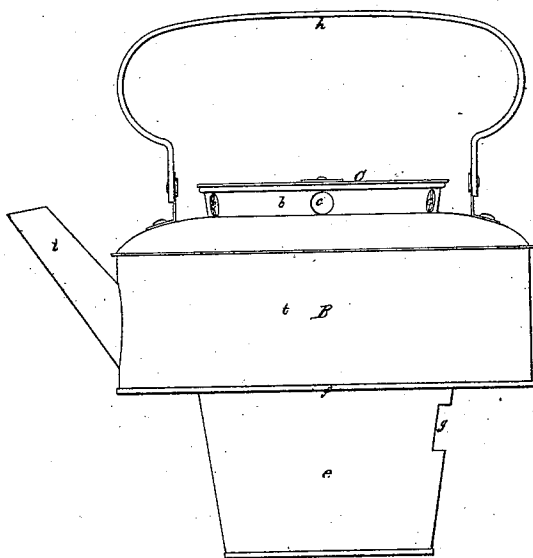


Fig. 4.

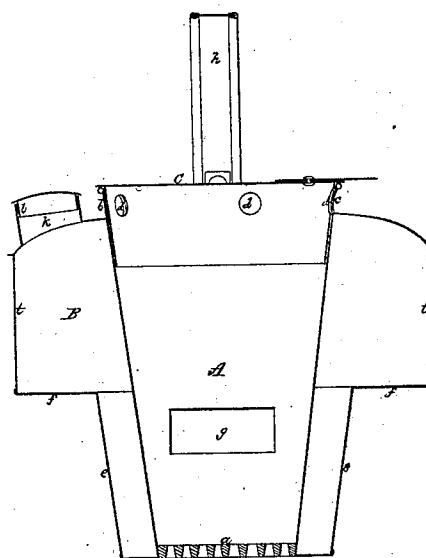
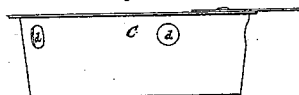


Fig. 5.



Witnesses.

S. N. Piper.
J. R. Snow

C. L. Taylor & G. C. Setchell.

by their attorney.
R. H. Eddy

United States Patent Office.

CEBRA L. TAYLOR AND GEORGE C. SETCHELL, OF GREENVILLE, CONNECTICUT.

Letters Patent No. 106,889, dated August 30, 1870.

COMBINED FURNACE AND TEA-KETTLE.

The Schedule referred to in these Letters Patent and making part of the same.

To all persons to whom these presents may come:

Be it known that we, CEBRA L. TAYLOR and GEORGE C. SETCHELL, of Greenville, of the county of New London and State of Connecticut, have invented a Combined Furnace and Tea-Kettle; and do hereby declare the same to be fully described in the following specification, and represented in the accompanying drawing, of which—

Figure 1 is a top view;

Figure 2, a front elevation;

Figure 3, a longitudinal section; and

Figure 4, a transverse section of it.

In such drawing—

A denotes a furnace having the form of a hollow conic frustum, and being open at top, and provided at bottom with a grate, *a*.

The furnace so made is arranged concentrically within a tea-kettle, B, the furnace being projected a short distance above the top of the kettle, and having the projecting portion *b* furnished with a series of holes, *c*, made through it.

A cover, C, formed as shown in side elevation in Figure 5, and in section in the figs. 3 and 4, fits into the mouth or upper end of the furnace, and is provided with a series of openings, *d d*, to correspond in position, number, and size with the holes *c*, the said cover, with its holes and the holes *c*, serving as an air-register for the furnace, as well as for other useful purposes.

The main body *t* of the tea-pot, not only surrounds the furnace, but there is an extension, *e*, from the bottom *f* of the said body, which also encompasses the furnace, opens into the body, and is closed at bottom, the said extension being to enter the boiler or kettle-receiving orifice of a stove or cooking-range.

A smoke-passage or flue, *g*, is led out of the furnace, and laterally through the extension *e*, the whole being as shown in fig. 3.

Furthermore, the body of the tea-kettle is furnished with a handle, *h*, and a discharging-spout or nose, *i*.

It also has, at its top, a filling-orifice, opening, or mouth, *k*, furnished with a cap or stopper, *l*.

On supplying the kettle with water or a liquid, putting fuel in the furnace, and setting fire to such fuel, and afterward inserting the kettle-extension into the boiler-receiving hole of a stove or range, the smoke from the fuel will be caused to escape by the flue *g* into the discharging-flue of the stove.

The heat of the fuel in the furnace being communicated to the contents of the kettle, will elevate the temperature thereof, or may be caused to do so to the boiling point. By turning the cover of the furnace so to more or less open the air-passages of the top of the furnace, air will be admitted into the furnace, and over the fuel, so as either to facilitate or diminish combustion, as circumstances may require.

The purpose of the furnace so combined with the kettle is to enable the liquid contents of the latter to be heated at any time, as in summer, for instance, without the necessity of doing so from a fire made in the grate of a stove or range. In winter, however, the kettle may be heated to great advantage by the fire of such a furnace or range, as the flame or hot volatile products of combustion may be caused to pass into the furnace of the tea-kettle, as well as around the extension of the body.

We claim as our invention—

1. The combined tea-kettle and furnace; as constructed, with the furnace A arranged within, and extending both above and below the body *t* of the tea-kettle, and having air-openings, *c*, and a smoke discharge-flue, *g*, disposed in manner as set forth.

2. The combined tea-kettle and furnace, as constructed with the furnace A, the tea-kettle body *t*, the extension *e*, and the escape-flue *g*, arranged as explained.

3. The combination and arrangement of the perforated cover, as described, with the tea-kettle and furnace, made and arranged as set forth.

CEBRA L. TAYLOR.
GEORGE C. SETCHELL.

Witnesses:

P. B. GREENE,
G. A. JONES, Jr.