F. CHANDLER.

Camp Stove.

No. 34,546. Patented Feb. 25, 1862.

Fig. 2

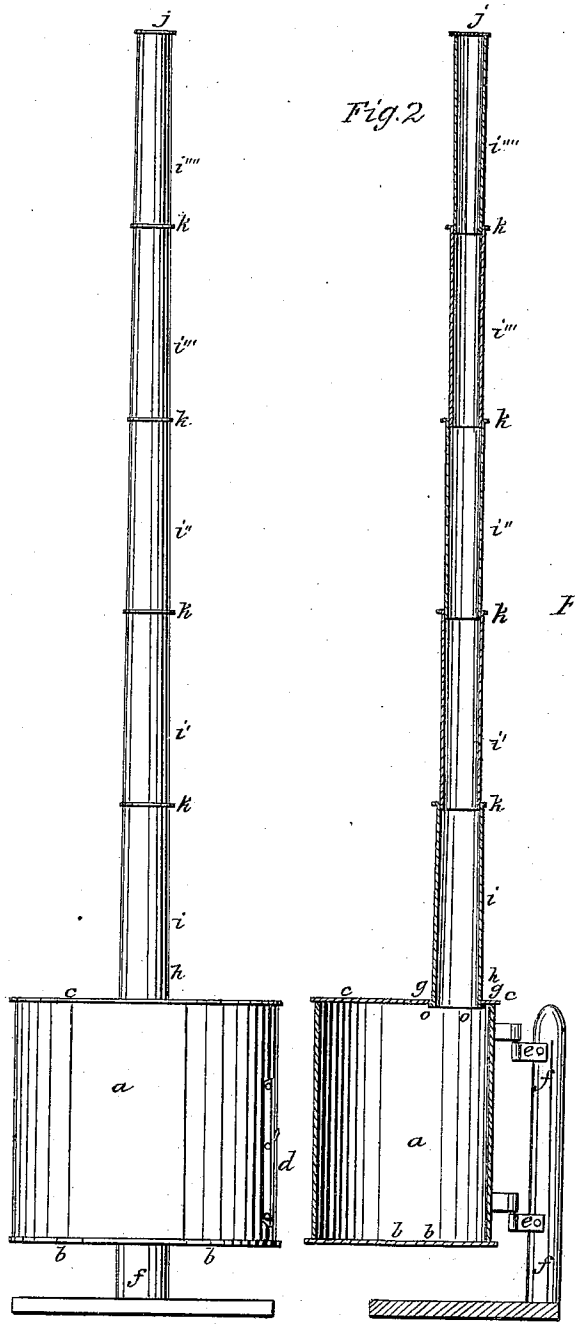


Fig. 3.

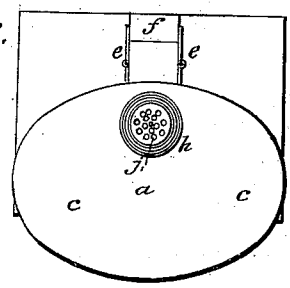


Fig. 4.

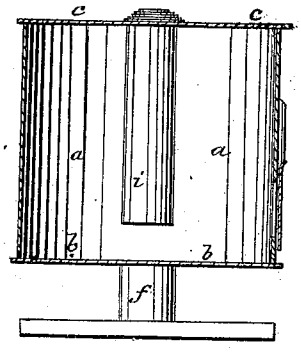
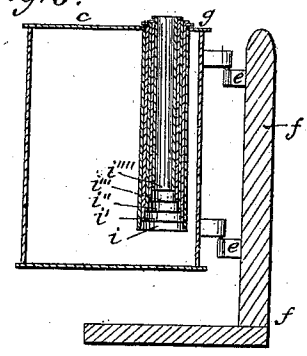


Fig. 5.



Witnesses.
Joseph Gavett
Albert W. Brown

Inventor.
Frederick Chandler

N. PETERS. Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

FREDERICK CHANDLER, OF CHARLESTOWN, ASSIGNOR TO HIMSELF, AND C. A. COUSENS, OF NEWTON, MASSACHUSETTS.

IMPROVEMENT IN CAMP-STOVES.

Specification forming part of Letters Patent No. **34,546**, dated February 25, 1862.

To all whom it may concern:

Be it known that I, FREDERICK CHANDLER, of Charlestown, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Stoves to be Used for Camp Purposes; and I do hereby declare that the following description, taken in connection with the accompanying drawings, hereinafter referred to, forms a full and exact specification of the same, wherein I have set forth the nature and principles of my said improvements, by which my invention may be distinguished from all others of a similar class, together with such parts as I claim and desire to have secured to me by Letters Patent.

The objects of my invention are to construct a stove in such a manner that it shall be rendered portable, occupy but little bulk, and be readily and easily set up and taken down. The principal difficulty heretofore experienced in the construction of such a stove has been found in the inconvenient length of the smoke-pipe, which, if dismembered, could not readily be put together again.

In my improved stove the smoke-pipe is so constructed and arranged as to be entirely inclosed and securely packed within the body of the stove while being transported from place to place, and yet be erected or drawn out to its full length in a few moments when the stove is to be used. This is extremely desirable in stoves to be used for camp purposes. I construct the smoke-pipe of a series of tubes fitting one within the other, so that they will easily slip upon each other, and yet firmly hold together when set up, and so that the whole smoke-pipe when not in use will be concealed within the stove.

In the accompanying plate of drawings, Figure 1 is a front view of my improvements in stoves with the funnel extended or drawn out to its full length. Fig. 2 is a central vertical section through the same. Fig. 3 is a plan or top view. Fig. 4 is a section of a stove, showing the funnel or smoke-pipe closed or shut up within the same. Fig. 5 is a vertical section through the funnel when closed.

a in the drawings represents the body of a stove, made of metal or any suitable material and of a cylindrical or any other desired shape. *b* is the bottom plate, *c* the top plate, and *d* the door. The body *a* of the stove is attached by hinges *e e*, or in any other suitable manner, to a post or standard *f*, which, when the stove is used for camp purposes, may consist of the central pole of the tent.

In the top plate *c* is a hole or aperture *g*, in which is placed a funnel or smoke-pipe *h*, made of a tapering form and consisting of a series of sectional tubes *i i′ i″*, &c. The tubes *i*, &c., are each of different diameters—that is, the lower tube *i* is made of a little greater interior diameter than the next tube *i′* above, in order that the latter *i′* may slide freely within the former *i* and be held firmly thereby, and so on to any desired number of sections or tubes, the upper end of the last tube being covered with a perforated metallic plate *j*.

k is a lip upon the upper end of each of the tubes *i i′*, &c., that when the smoke-pipe is shut up prevents the sections or tubes from passing too far through each other. *o* is another lip upon the lower end of the first tube *i* to prevent the same from being wholly drawn through the aperture *g* as the funnel is extended by impinging against the upper plate *c* of the stove *a*.

By giving to the smoke-pipe or funnel the shape and making it of sectional tubes or pieces, as hereinabove described, it is evident that it can be drawn out or extended to any length to suit the exigencies of the occasion, which for camp purposes is very desirable, and also that it can be expeditiously taken down or shut up in the body of the stove, as represented in Fig. 5, and thus being securely packed or concealed therein is free from any danger of being bruised or injured, and, moreover, thereby diminishes the space occupied by the stove when packed for transportation.

The smoke-pipe, it is evident, may consist of any desired number of sectional tubes, and also that there are many ways of arranging them together so as to permit of their sliding freely within each other, the essential object of the present invention being to so construct a smoke-pipe or funnel in sectional tubes or pieces as to permit of its being drawn out or shut up at pleasure without disengaging the tubes of which it is composed from each other.

Having thus described my invention, I shall state my claim as follows:

1. Forming a sectional stove-pipe in such a

manner that its sectional pieces, whether straight or tapering, shall be held together and to the stove by flanges or other positive mechanical devices to prevent their dismemberment from each other or from the stove.

2. So combining a sectional stove-pipe constructed in the manner described with a stove as to permit the said sectional stove-pipe to be packed and inclosed by the stove, as described.

FREDERICK CHANDLER.

Witnesses:

JOSEPH GAVETT,

ALBERT W. BROWN.