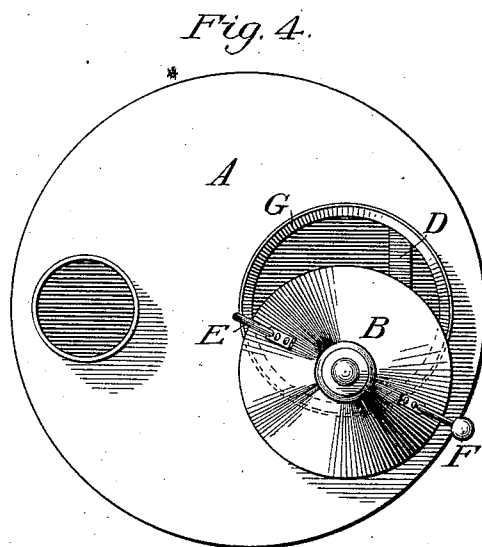
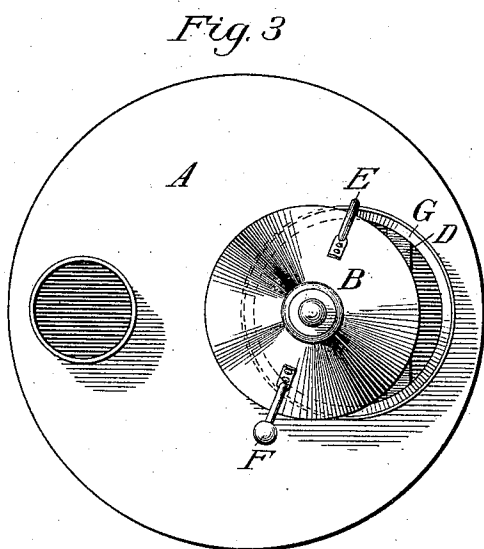
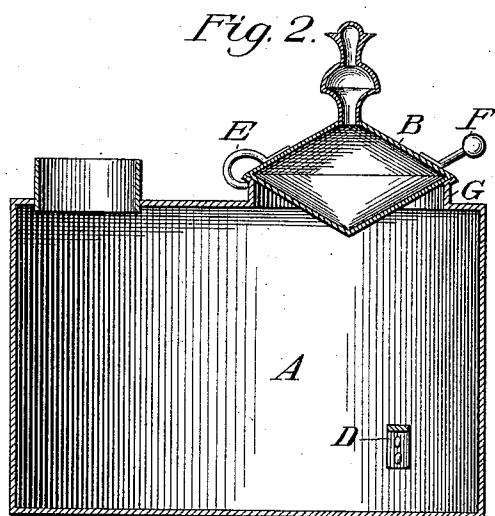
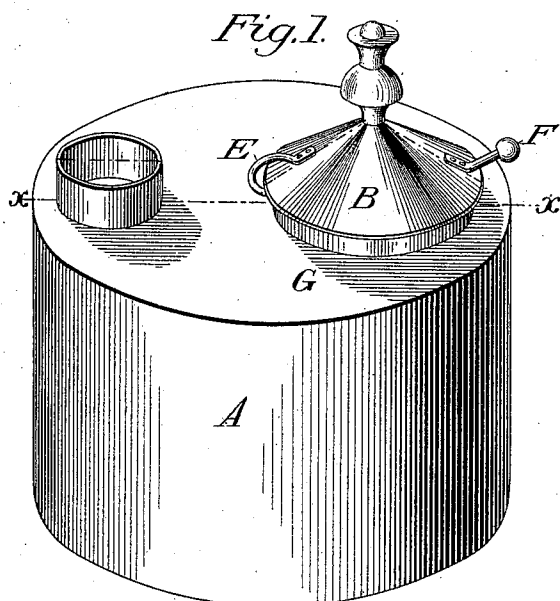


(No Model.)

O. H. VAN GILDER.
STOVE.

No. 575,816.

Patented Jan. 26, 1897.



Witnesses.
Thomas J. Brock.
F. M. Roerk.

Inventor.
Ottavio H. Van Gilder

UNITED STATES PATENT OFFICE.

OTTAWA H. VAN GILDER, OF BORDEN, INDIANA, ASSIGNOR OF ONE-HALF
TO HARMAN SHOEMAKER, OF SAME PLACE.

STOVE.

SPECIFICATION forming part of Letters Patent No. 575,816, dated January 26, 1897.

Application filed February 3, 1896. Serial No. 577,915. (No model.)

To all whom it may concern:

Be it known that I, OTTAWA H. VAN GILDER, a citizen of the United States, residing at Borden, in the county of Clark, in the State of Indiana, have invented a new and useful Stove, of which the following is a specification.

My invention relates to an improvement in that class of stoves commonly called "drum-stoves;" and the objects of my improvements are to have but one opening in the stove for the introduction of fuel and of draft; to exclude said draft completely when desired; to control and direct the draft to any part of the fuel desired, and to so construct the stove that wood or coal may be used as fuel therein. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a vertical perspective of my improved stove. Fig. 2 is a vertical section of the same on the line $x x$. Fig. 3 is a view of the damper opened to give a forward draft. Fig. 4 is a view of the damper to give a side draft.

Similar letters refer to similar parts throughout the several views.

A is a drum-stove of ordinary pattern, but with a level top and my improvements attached.

B is a damper serving likewise as a door or lid to the stove. It is cone-shaped as to its lower surface, of such a shape and size as to completely cover the opening when resting on the ring G. It is provided with the attaching-hook E, which, by engaging the flanged rim of the ring G, attaches it to said ring, but in such a manner that the damper may rotate upon its own center or upon the hook E as a center.

F is a handhold to be used in rotating said damper.

G is a ring attached to the upper surface of the stove, with its upper edge flanged to receive the hook E and to afford a support to the damper B.

My device is operated as follows: The damper B is swung around upon E as a hinge. The fuel is then inserted. The damper is then turned back, not to its original position, but

to such a position as in Fig. 3, so that the draft may strike the forward end of the fuel.

My damper is operated as follows: To attain a forward draft, the damper is arranged as in Fig. 3, where the opening into the stove is forward. To attain a side draft, the damper is rotated into the position shown in Fig. 4. To attain a rear draft, the damper would be drawn forward from its position in Fig. 3 until an opening in the rear is disclosed. To shut off the draft completely and to preserve the fire, the damper is placed as shown in Fig. 1.

I prefer to construct my damper of sheet-iron in the shape of a double cone, arranging a suitable ornament on the upper cone, but the essential element of the damper is the cone-shaped base and the method of attaching it to the rim.

I claim for my device, first, simplicity of structure, in that a door and damper and attachments therefor are replaced by my damper alone; second, that the fuel in my stove may be completely consumed by directing the draft to unconsumed portions by suitable changes in the position of the damper; third, for the preserving of fire for an extensive period, for when the damper rests upon the ring there is no opening whatever for the admission of air; fourth, and what I deem the most valuable feature is that my stove radiates a large amount of heat from its lower portions, owing to the fact that the cold air is admitted from above and strikes downward over the fuel before leaving the stove again.

A practical trial of the stove has proved to me that my stove possesses the advantages I have named.

Having thus described my invention, what I claim as my own, and desire to secure by Letters Patent of the United States, is—

1. A stove having a level top supporting a flanged ring, sufficiently large to permit the insertion of fuel, through it into the stove; the said ring supporting a combined lid and damper with a conical base, and attached to said ring by a hook, which passes around the flange of the ring, and permits a rotary motion of the damper around its center and like-

wise around the hook as a pivot, all substantially as described.

2. The drum-stove A with level top through which is a large circular opening, surrounded
5 by a flanged ring G upon which rests a combined door and damper B, with a conical base, a hook E attaching it to said flanged ring, but

allowing a free rotatory movement, a handhold F for actuating said damper, all substantially as described.

OTTAWA H. VAN GILDER.

Witnesses:

JAMES TODD,

ELIZA WALTERS.