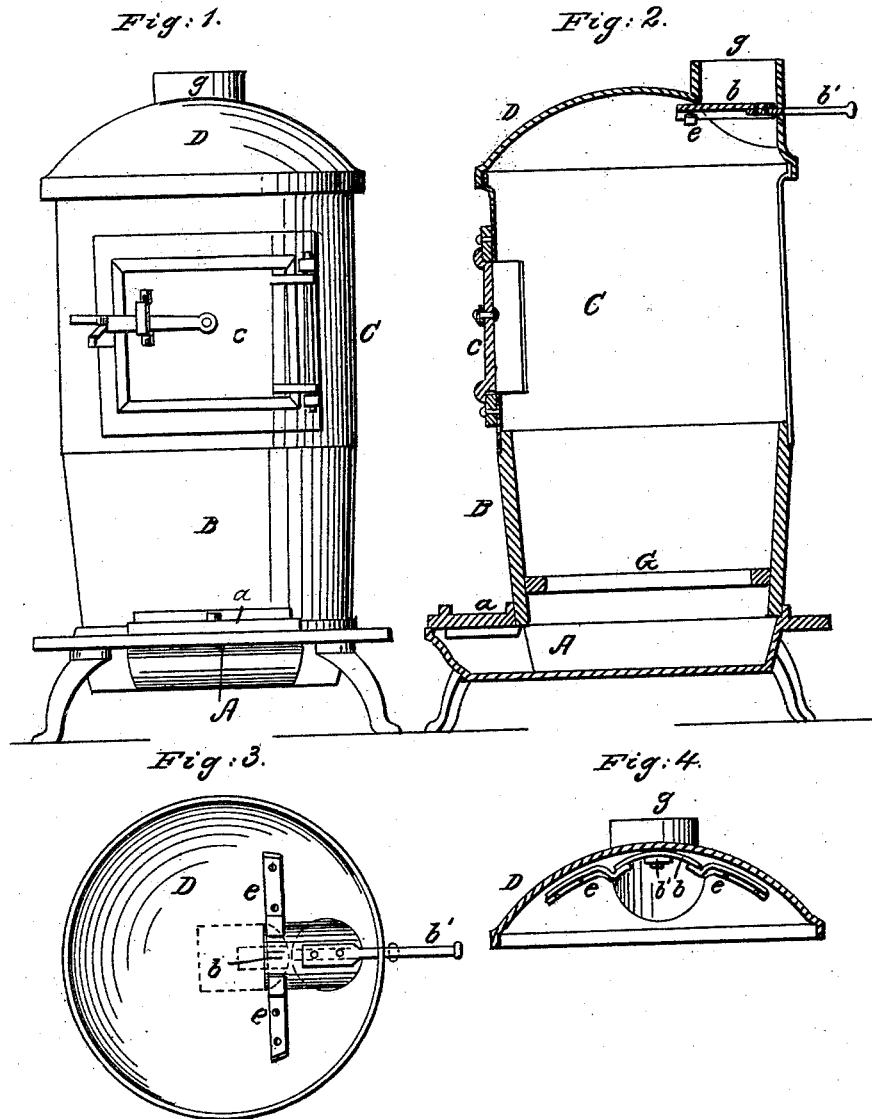


P. D. BECKWITH.

Dome Top Stove.

No. 108,316.

Patented Oct. 18, 1870.



Witnesses:
R. T. Campbell.
J. H. Campbell.

Inventor:
P. D. Beckwith.
by
Mason Fenwick Lawrence,
attys.

United States Patent Office.

PHILO D. BECKWITH, OF DOWAGIAC, MICHIGAN.

Letters Patent No. 108,316, dated October 18, 1870.

IMPROVEMENT IN DOME-TOP STOVES.

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

To all whom it may concern:

Be it known that I, PHILO D. BECKWITH, of Dowagiac, in the county of Cass and State of Michigan, have invented a new and useful Improvement on a Dome-top Stove; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing making part of this specification, in which—

Figure 1 is a front view of the kind of stove which I have improved.

Figure 2 is a diametrical section through the same from front to rear.

Figure 3 is a bottom view of the dome top, having my improvement applied to it.

Figure 4 is a vertical cross-section through the top.

Similar letters of reference indicate corresponding parts in the several figures.

This invention relates to stoves which have hemispherical or dome-shape tops.

The object of my invention is to apply a sliding damper or valve to the under side of the dome top of the stove, in such manner that it can be readily operated from the outside of the main flue, and this flue wholly closed or opened, or partially closed, at pleasure, as will be hereinafter explained.

The following description will enable others skilled in the art to understand my invention.

In the accompanying drawing—

A represents the hearth and ash-pit of the stove, which is mounted upon legs, and cast with a circular flange rising from its top, for receiving a cast-metal fire-pot, B.

This fire-pot flares upwardly, and receives around its upper edge a sheet-metal cylinder, C, through which is the feed-opening, provided with a door, c.

Surmounting this cylindrical section C, and suitably

secured thereto, is a dome-shaped top, D, to which I apply my invention.

From the rear part of the dome D rises vertically a flue, *g*, to which is applied a sliding damper, *b*, the handle *b'* of which is passed through a hole made through the back part of the flue or pipe *g*.

In order to apply the damper to a top of the dome, I bend this damper, as shown in fig. 4, and round that end of it next the handle *B'*.

The curved damper is adapted to the concavity of the under side of the dome, at the lower margin of the flue-opening, and the curved or rounded end of this damper is adapted to fit closely in contact with the circular pipe *g*.

By means of hooked lugs *e e*, either riveted or cast on the under side of the dome, the damper is guided and held in its place.

The damper-rod *b'* should be of such length as will allow the damper to be moved inwardly far enough to expose the entire area of the lower end of the pipe or flue *g*.

Having thus described my invention, it will be seen that the damper is applied directly to the dome, and not within the pipe *g*; consequently, when it is desired to obtain a full draught, the damper can be moved entirely away from the lower end of the flue, so that it will offer no obstruction to the draught. While this is the case, the damper can be regulated with the same facility as though it was arranged within said flue.

Having described my invention,

I claim as new—

The curved and rounded sliding damper *b*, applied to the under side of the dome D, substantially as and for the purpose described.

Witnesses: PHILO D. BECKWITH.

CHAS. STARRETT,
CHAUNCEY T. LEE.