

M. C. BURLEIGH.
Stovepipe Damper.

No. 105,167.

Patented July 12, 1870.

Fig. 1.

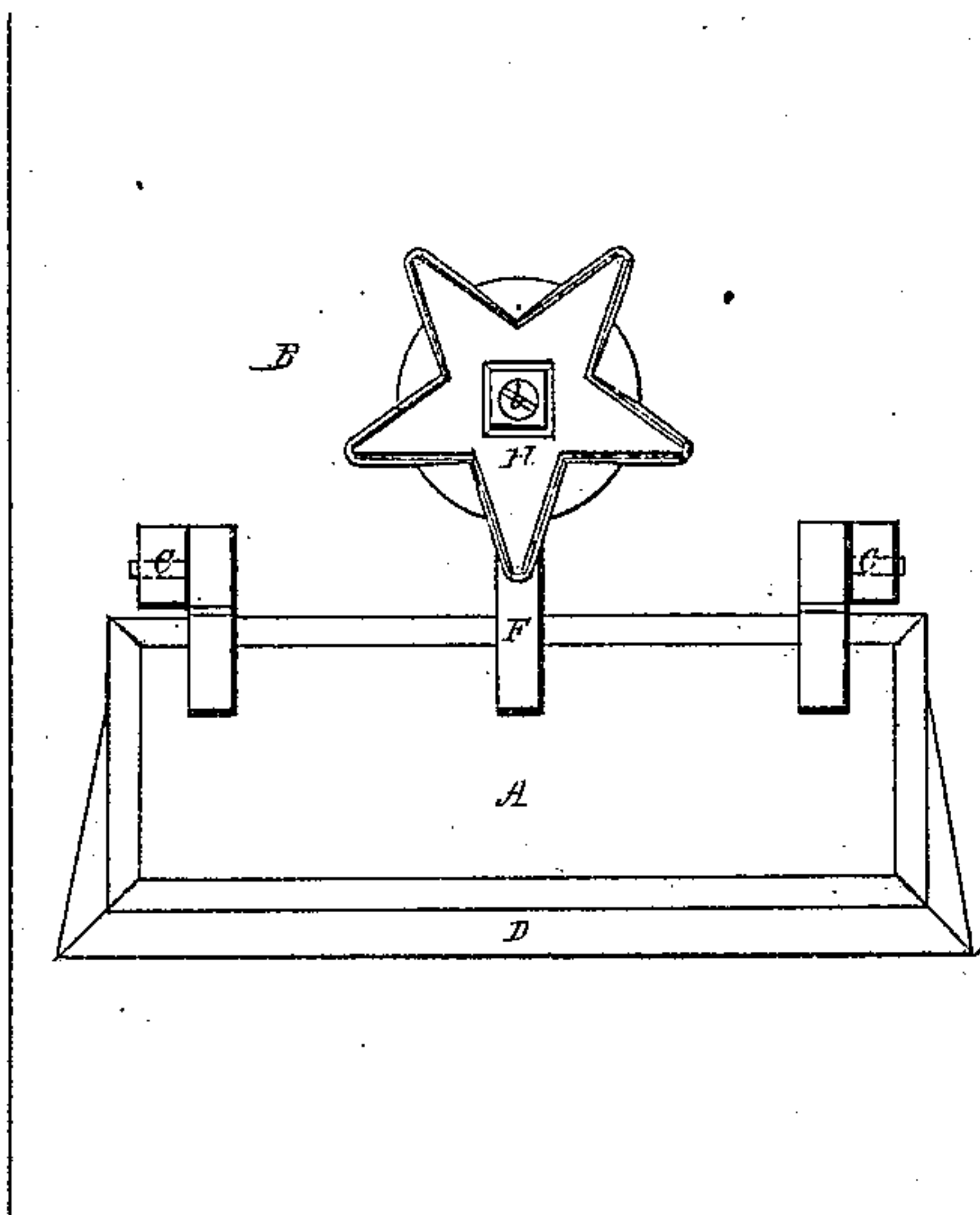


Fig. 2.



Fig. 3.



Fig. 4.

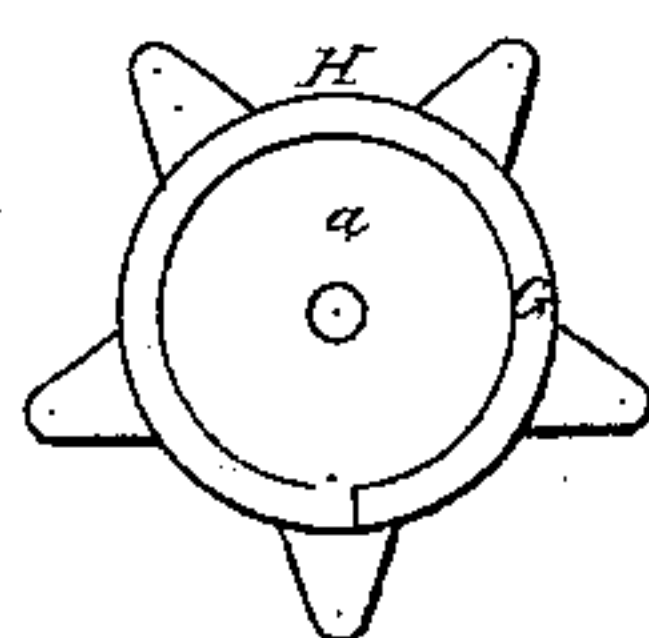
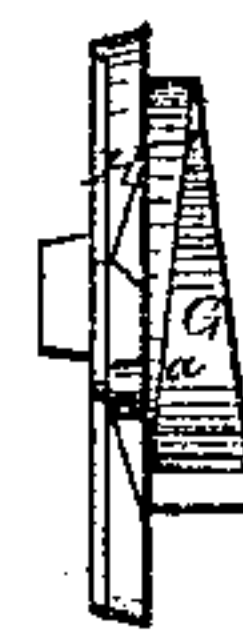


Fig. 5.



Witnesses.

S. N. Piper

J. R. Snow

M. C. Burleigh

by his attorney.

N. H. Day

United States Patent Office.

MICAJAH C. BURLEIGH, OF SOMERSWORTH, NEW HAMPSHIRE.

Letters Patent No. 105,167, dated July 12, 1870.

IMPROVEMENT IN DAMPERS.

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 I, MICAJAH C. BURLEIGH, of Somersworth, in the county of Strafford and State of New Hampshire, have made a new and useful invention having reference to Valves for Furnaces or Stoves or Cooking-Ranges; and do hereby declare the same to be fully described in the following specification and represented in the accompanying drawing, of which—

Figure 1 denotes a front elevation;

Figure 2, an end view; and

Figure 3, a transverse section of a valve and its seat, with my invention applied to the valve.

The purpose of such invention is to open the valve to any desirable angle with its seat, and retain it in such position as occasion may require.

Figure 4 is a rear view, and

Figure 5, an edge view of the star and cam, to be hereinafter described.

The valve or door, shown at A, is suspended from a vertical plate, B, by means of hinges, as shown at C C, the seat D of the valve being projected from the said plate, and provided with a passage, E, leading through it.

From the middle of the upper edge of the valve a curved arm, F, is projected upward, and rests against the helical edge of a helix-cam, G, formed on the rear

face of a star, H, which, in rear, is provided with a cylindrical socket, *a*, to receive a round projection, I, extended from the plate B, in manner as represented.

The said projection constitutes a journal or pivot for the support of the star and its cam, they being in one piece, and the said star being held to the journal by a screw, *b*, going through the center of the star, and screwed into the journal.

By revolving the star the cam will be turned around with it, and, by its action on arm of the valve, may be caused to open the valve or move it away from its seat, as occasion may require, the cam serving, with the arm, to retain the valve at any desirable angle to the seat within the limits of the movement of the valve therefrom.

The valve will be returned toward its seat by the action of gravity, while the cam may be in the act of being revolved in the right direction to admit of such.

I claim—

The rotary helix-cam G, the star H, their pivotal supports *a* I, and the arm F, as constructed and arranged with each other and the valve and seat, the whole being as and to operate in manner as set forth.

MICAJAH C. BURLEIGH.

Witnesses:

F. LAWLOR,

J. R. SNOW.