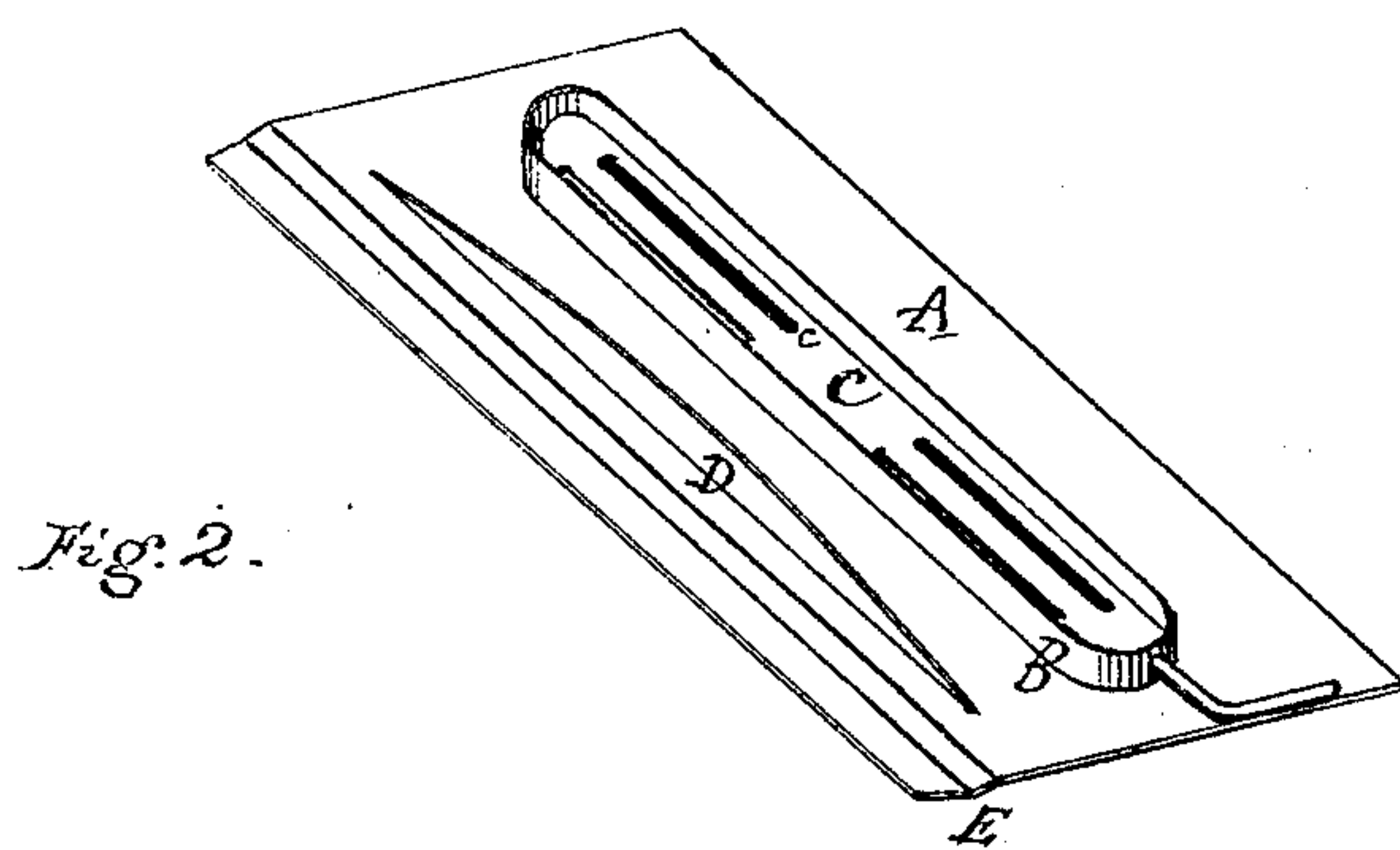
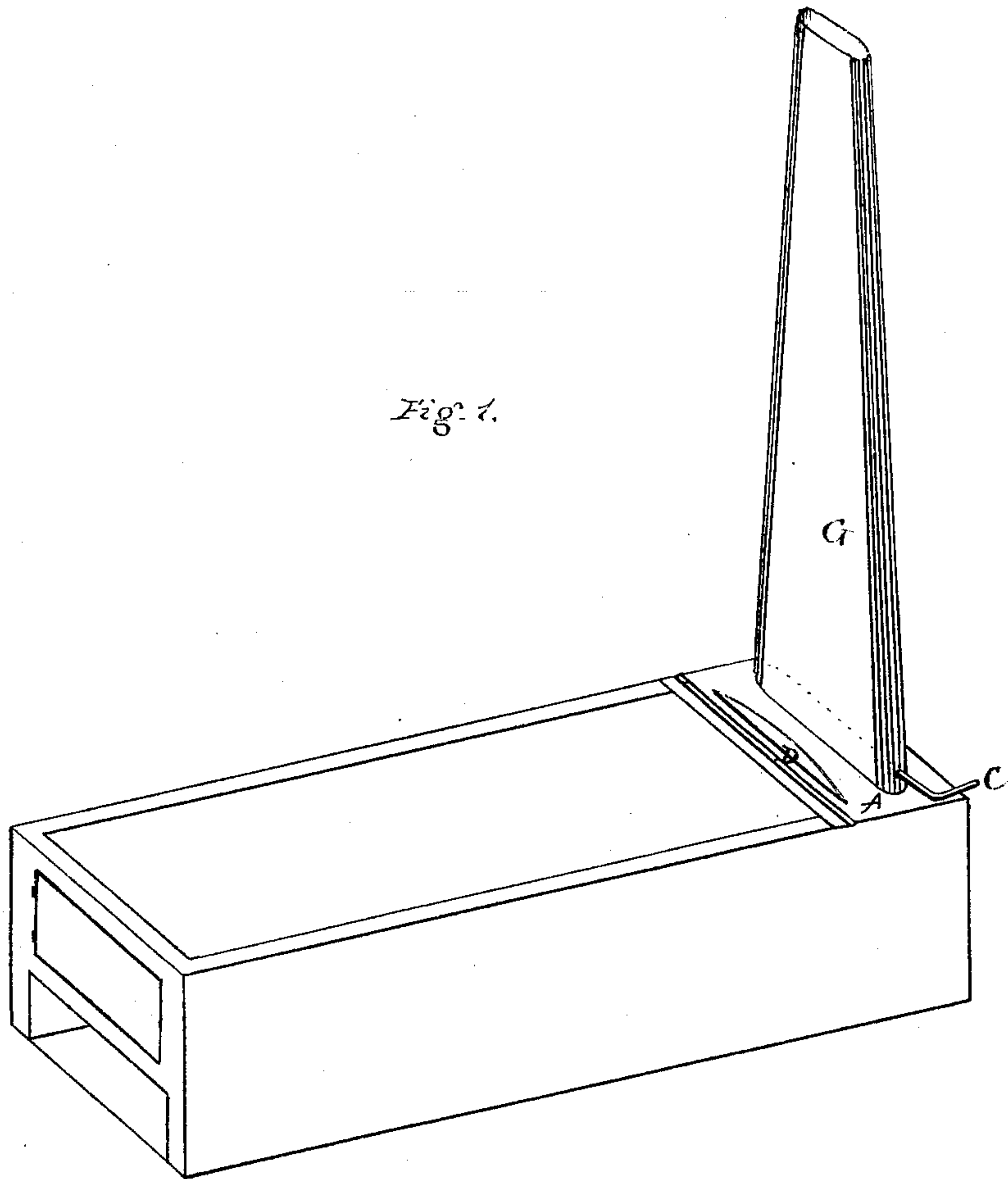


CHARLES C. POST.

Improvement in Smoke-Pipes and Base-Plates for Sugar-Evaporators.

No. 114,597.

Patented May 9, 1871.



Witnesses

Edm. P. Brown.  
J. W. Fitzhugh

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Charles C. Post  
Daniel Breed, Atty

# United States Patent Office.

CHARLES C. POST, OF HINESBURG, VERMONT.

Letters Patent No. 114,597, dated May 9, 1871; antedated April 27, 1871.

## IMPROVEMENT IN SMOKE-PIPES AND BASE-PLATES FOR SUGAR-EVAPORATORS.

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, CHARLES C. POST, of Hinesburg, in the county of Chittenden and State of Vermont, have invented certain new and useful Improvements in Smoke-Pipes for Furnaces; and I hereby declare that the following is a full and clear description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon.

My invention consists of a metallic plate provided with a slot or long narrow hole, extending nearly the width of the fire-space, and surrounded with a flange or rim to receive the lower end of the smoke-pipe.

In the accompanying drawing—

Figure 1 is a perspective view of a furnace with my improvement attached.

Figure 2 is a perspective view of my base-plate for the smoke-pipe.

My improved base for smoke-pipe is a metallic plate, A, which is to be laid on the brick-work, as seen in fig. 1.

This plate has a long narrow opening about the width of the fire-chamber; and this opening is surrounded by a rim or flange, B, to receive the lower end of the smoke-pipe G.

A damper, C, is fitted to this opening or flange in order to open or close the draught at pleasure.

I prefer to have several narrow slots, c, in the damper, so as not to entirely check the passage of smoke when the damper is closed.

A stiffening-piece, D, serves to prevent the plate A from bending or sinking down by the weight of the pipe when the plate is hot and more easily bent.

The edge of the plate adjoining the evaporating-pan is curved down, as seen at E, the bricks being cut away to receive this flange or curved edge, which not only stiffens the plate, but also receives the end of the evaporating-pan when set upon the furnace.

The advantages of my plate are as follows:

First, it is cheaper than brick.

Second, the pipe and plate may be conveniently removed for winter, while a chimney is liable to heave with the frost.

Having described my invention,

I claim—

1. The above-described base-plate A, provided with the rim or flange B for receiving and supporting the smoke-pipe, substantially as set forth.

2. The stiffening-piece D, substantially as set forth.

3. The curved edge E, for stiffening the plate, and for receiving and supporting the evaporating-pan, substantially as set forth.

4. The damper C, in combination with the plate A, substantially as set forth.

5. The plate A, in combination with the pipe G, substantially as set forth.

CHARLES C. POST.

Witnesses:

EDM. F. BROWN,  
DANIEL BREED.