(No Model.)

# A. M. MOHRMANN.

## STOVE OR FURNACE DAMPER.

No. 411,603. Patented Sept. 24, 1889.

Fig. 1.

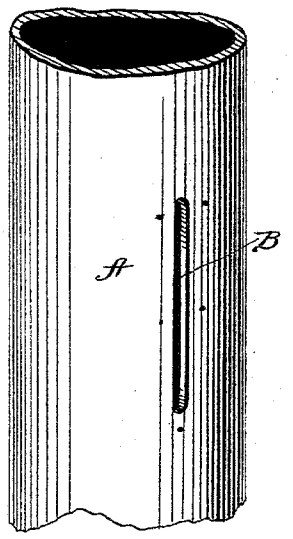



Fig. 2.

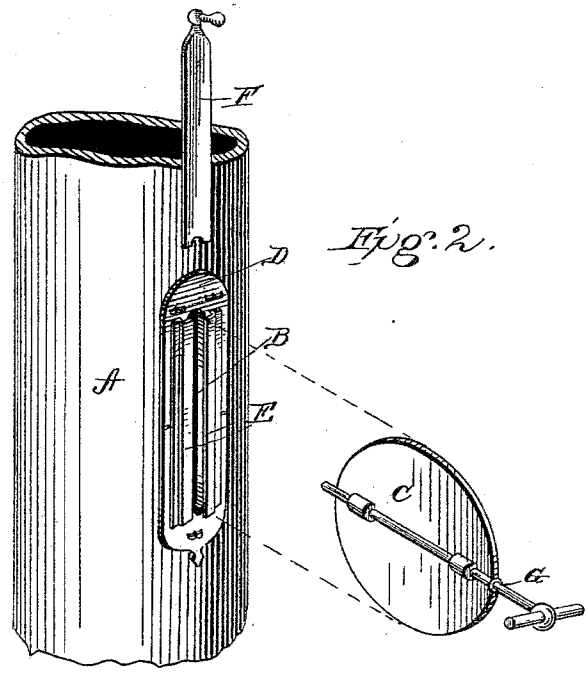



Fig. 3.

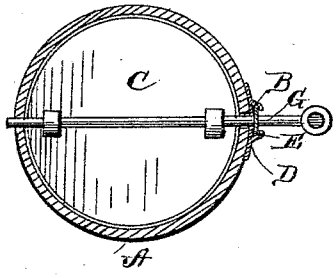
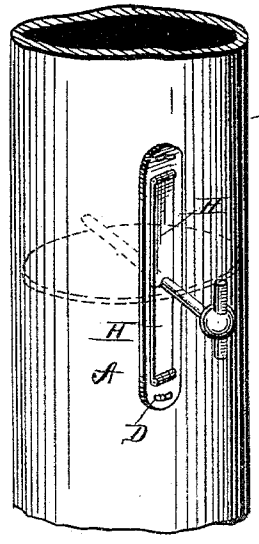



Fig. 4.




WITNESSES

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# UNITED STATES PATENT OFFICE.

ALBERT MARTIN MOHRMANN, OF PORT TOWNSEND, WASHINGTON TERRITORY.

## STOVE OR FURNACE DAMPER.

SPECIFICATION forming part of Letters Patent No. 411,603, dated September 24, 1889.

Application filed May 8, 1889. Serial No. 310,049. (No model.)

*To all whom it may concern:*

Be it known that I, ALBERT MARTIN MOHRMANN, a citizen of the United States, residing at Port Townsend, in the county of Jefferson and Territory of Washington, have invented new and useful Improvements in Stove or Furnace Dampers; and I do hereby declare the following to be a full, clear, and exact description of said invention, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to improvements in stove or furnace dampers.

The object of my invention is to provide a damper for stove or furnace pipes and means whereby the damper-plate when it becomes defective through use can be taken out and replaced by a new one without taking down or detaching the pipes. By the use of my invention the damper can be readily removed at any time without any trouble and in but a few moments.

My invention consists of a pipe-damper attachment which allows the damper to be inserted within the pipe through a slotted opening made longitudinally of the pipe, said opening being covered by a metal casting, the central portion of which is made to slide out, making a door through which the damper-plate can be taken out or put in at any time.

Referring to the accompanying drawings, Figure 1 is a perspective view of a stove-pipe having the long slot cut longitudinally therein. Fig. 2 is a like view of the pipe, showing the supplemental piece, with the sliding cover withdrawn and damper ready for insertion. Fig. 3 is a horizontal sectional view of the pipe with the damper-plate in position to shut off the draft. Fig. 4 is a modification of the device.

A indicates the stove or furnace pipe, having the long slot B cut in the pipe in the direction of its length and of sufficient size to admit the damper-plate. The slot B is surrounded by a suitable metal piece or casting D, said casting being permanently fastened to the pipe, the slot in the casting corresponding with that in the pipe. This casting is provided with two lugs E, extending the full length of the slot and on both sides of the same, which are so shaped as to form together a sliding groove for the draw-cover F.

When the damper is in position, the axle G of the damper fits in a bearing at the lower end of the slot, while the slide F has a concavity which fits over the axle when in a closed position, thus making a tight-fitting bearing for the damper-axle.

The damper is of ordinary form, consisting of a plate of metal fastened to an axle and made to revolve by the turning of the axle, one end of which terminates in a handle. One end of the axle finds a bearing directly opposite the lower end of the slot in the pipe, the concavity in the supplemental piece at the lower end of the slot forming the other bearing.

In Fig. 4 I have shown a modification in which two hinged pieces H H take the place of a sliding door, said hinged pieces being hinged one at the upper end of the slot and the other at the lower end, the ends of which pieces have each a concavity which allows them to come together around the damper-axle when closed and form a bearing for the same.

The above-described attachment may be secured to the pipe in any suitable manner; but it can be affixed by any one by means of the rivet shown in the drawings, which has two prongs, which, when inserted, can be bent over so as to hold the device securely.

What I claim, and desire to secure by Letters Patent, is—

1. In combination, a stove-pipe having a slot therein, a plate affixed to the pipe and having a corresponding slot, the said plate carrying a bearing for the damper-axle, a revolving damper having its axle resting on said bearing, and a cover for the said slotted plate.

2. A damper attachment for stove or furnace pipes, consisting of a plate having a slot therein, and a bearing for the damper-axle, said slotted plate being provided with a cover, substantially as and for the purpose set forth.

In testimony whereof I affix my signature in the presence of two subscribing witnesses.

ALBERT MARTIN MOHRMANN.

Witnesses:

J. G. STERMING,

CHAS. B. WOOD.