ERNEST LOHSAND.

Improvement in Stove-Dampers.

No. 114,453. Patented May 2, 1871.

Fig. 1.

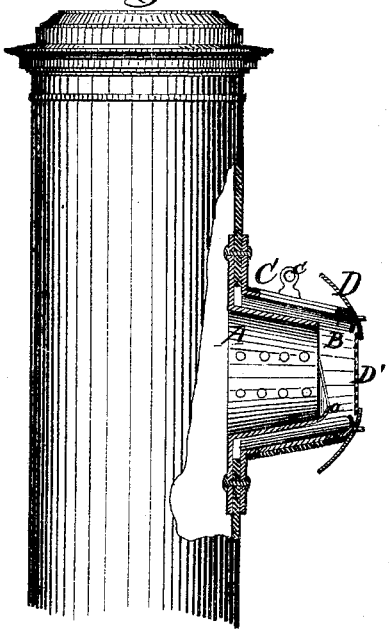


Fig. 2

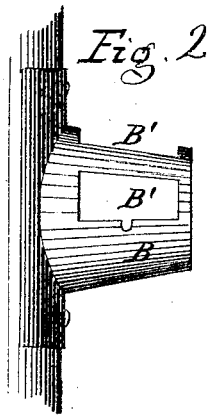


Fig. 3

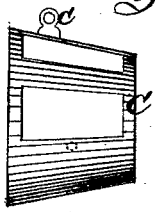


Fig. 4

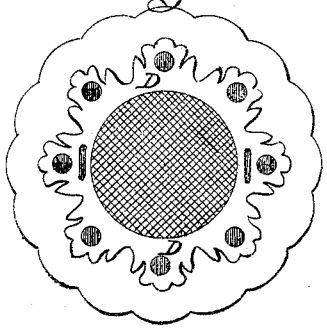


Fig. 5

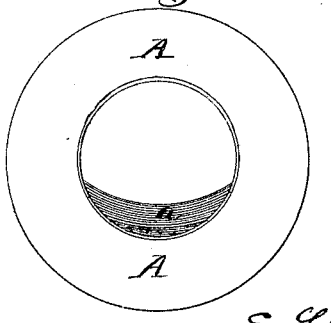
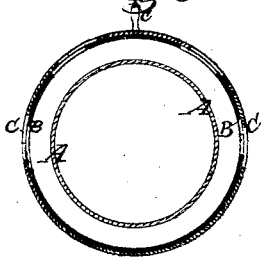


Fig. 6



Attest

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ERNEST LOHSAND, OF LA PORTE, INDIANA.

Letters Patent No. 114,453, dated May 2, 1871.

IMPROVEMENT IN STOVE-DAMPERS.

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, ERNEST LOHSAND, of La Porte, in the county of La Porte and State of Indiana, have invented certain Improvements in Dampers for Stoves; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the annexed drawing making part of this specification, in which—

Figure 1 is a central vertical section of my improved damper as applied to a parlor-stove.

Figure 2 is a side elevation of the device without the cover or door and register.

Figure 3 is a side view of the register.

Figure 4 is a front view.

Figure 5 shows the side opening into the stove.

Figure 6 is a vertical transverse section.

The same letters of reference are used in all the figures in the designation of identical parts.

This invention, relating to an illuminating damper for stoves, consists in the combination of a short tube fastened by a flange to the casing of the stove, projecting through or surrounding an aperture therein, with another short tube, somewhat longer and of greater diameter, which, surrounding it, is closed at the outer end by an illuminating door or cover, and has a series of openings in the upper portion of its shell for the admission of air, the draught being regulated by a circular register.

To enable those skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

The interior smaller tube A of the damper has, like the interior and larger one, B, a circumferential flange for convenience in securing it to the stove, from which it projects, as seen in the drawing, surrounded by the larger one, which, being also longer, extends some distance beyond its termination. Both tubes are similar in form and preferably made somewhat tapering, as shown.

The smaller one is open at both ends, and its shell is provided with series of perforations at short intervals to admit the air in fine jets at those points.

Its outer end has an upturned lip, *a*, which extends about half-way around it, being widest at the bottom of the tube, and tapering off from that point toward each side, as best seen in fig. 5. This lip serves as a spark-arrester, causing the cinders to fall to the bottom of the tube to be returned into the stove.

The tube B has several large openings, B′, formed in its shell at the sides and on top, the lower portion remaining solid to catch sparks passing entirely through the inner tube.

The draught of air through these openings is regulated by a circular register, C, which is nicely fitted on the tube B, and can be turned by a knob, *c*, to make its apertures, or the intervening solid portions, register with the openings B′, as required.

The forward or outer end of the tube B is closed by a door or cover, which consists of an annular rim, D, the opening of which is closed by a piece of mica, D′, protected on the outside by a perforated sheet of tin or fine wire-cloth, so that the light of the fire may always shine through it.

The rim of the cover may be of any ornamental design, and is provided with slots for the purpose of hooking it onto projections of the tube B. It may thus be easily removed to kindle a fire or poke it.

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

1. The combination of the tube A surrounding slotted tube B closed at the outer end, and register C, substantially as and for the purpose set forth.

2. The tube A constructed with an upturned lip, *a*, substantially as and for the purpose set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

E. LOHSAND.

Witnesses:

IRVIN VAN HIE,

B. EDW. J. EILS.