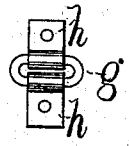
E. K. DEAN.

Stove-Pipe Dampers.

No. 136,042. Patented Feb. 18, 1873.



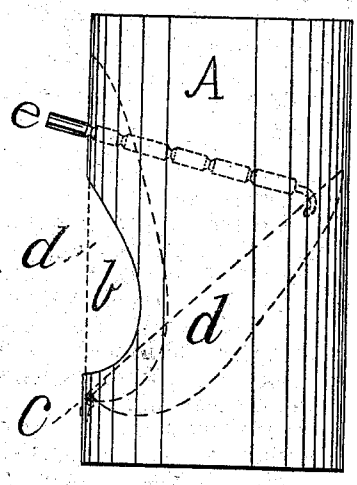


Fig. 1.

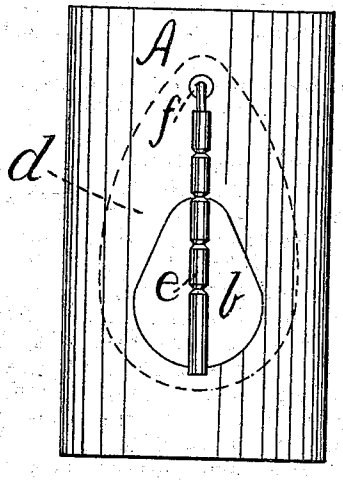


Fig. 2.

Witness
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Atty

UNITED STATES PATENT OFFICE.

EPHRAIM K. DEAN, OF BANGOR, MAINE.

IMPROVEMENT IN STOVE-PIPE DAMPERS.

Specification forming part of Letters Patent No. **136,042**, dated February 18, 1873.

To all whom it may concern:

Be it known that I, EPHRAIM K. DEAN, of Bangor, in the county of Penobscot and State of Maine, have invented certain new and useful Improvements in Dampers for Stove-Pipes; and I do hereby declare that the following is a full, clear, and exact description thereof, that will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawing and to the letters of reference marked thereon, which form a part of this specification.

Figure 1 shows a side view of funnel; Fig. 2, a front view of same, with damper in dotted lines.

Same letters show like parts.

The object of my invention is to produce a simple and cheap stove-pipe damper, which shall check the draft by closing the flue and admit cold air to the funnel at the same time.

Referring to the drawing, A shows a section of a stove-pipe having an aperture, *b*, therein. Below this aperture, and attached to the funnel by a hinge, *c*, is the damper *d*, formed of thin metal, and curved to correspond with the curve of the funnel, so that when it is in an upright position it will close the hole *b*. The shape of the damper varies, as the pipe is round or oval, but is such that when it is pushed in entirely its edges on all sides will come into contact with the inside surface of pipe, or as nearly so as may be. To the upper part of the damper is loosely attached a rod, *e*, having notches cut therein, which rod passes through a hole, *f*, in the funnel above the aperture *b*. The draft is regulated by pushing in or drawing out the damper *d*, closing the funnel A, and admitting air through the hole *b*, or vice versa. This rod furnishes the means for operating the damper, and it may be retained in any desired position by means of the notches, the edges of the hole *f* engaging them and holding the rod securely. The form of the damper serves to prevent any escape of smoke through the hole *b*. A desirable form of hinge for connecting damper and pipe is shown in the drawing. It consists of a flattened ring, *g*, having loops *h h* on each side, one of which is secured to the damper and the other to the pipe. This hinge enables the damper to shut closely the hole *b;* but I do not limit myself to this precise form.

I do not claim, broadly, the principle of admitting air to a flue to check the draft; but

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

1. The within-described damper *d*, in combination with and hinged to a funnel, A, having an aperture, *b*, therein, substantially as and for the purposes set forth.

2. In combination with the above elements, the notched rod *e* or its equivalent, as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 14th day of December, 1872.

EPHRAIM K. DEAN.

Witnesses:

H. D. FULLER,

WM. FRANKLIN SEAVEY.