

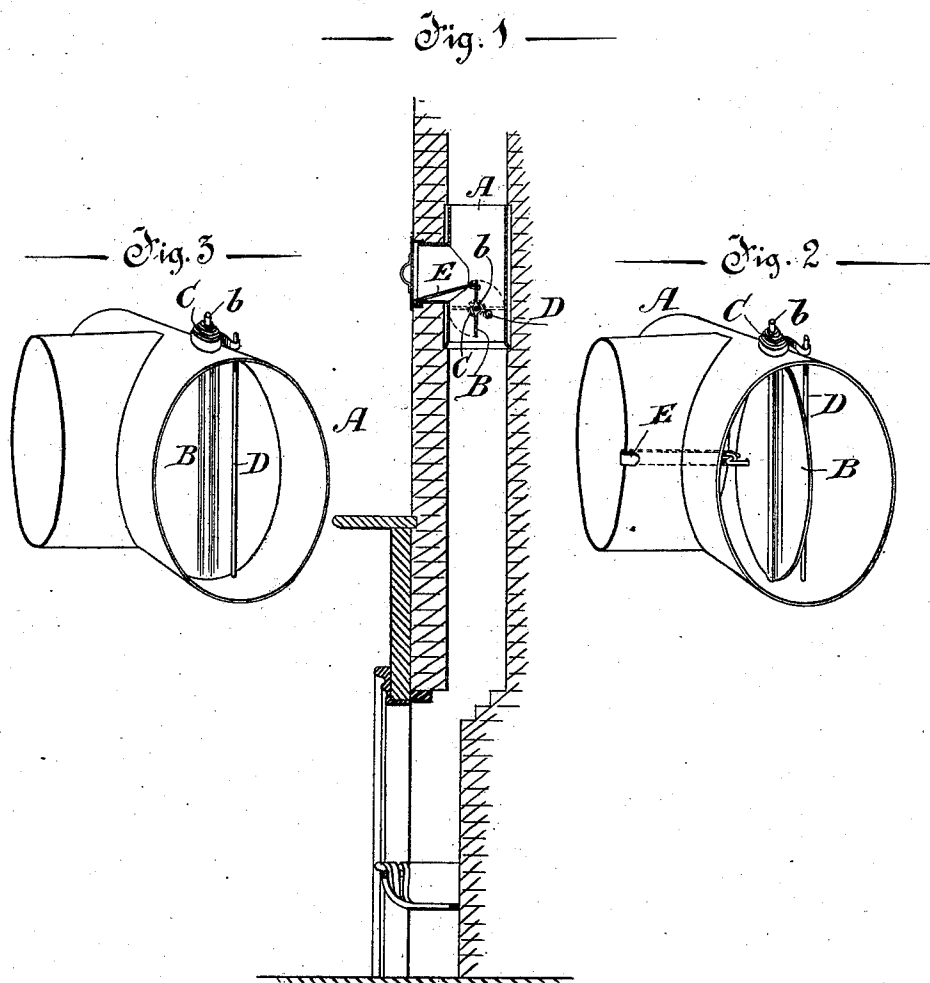
(No Model.)

F. J. GILMAN.

DAMPER FOR STOVE PIPES AND FLUES.

No. 314,121.

Patented Mar. 17, 1885.



Witnesses:—
Owen N. Evans
C. R. McDowell

Inventor
F. J. Gilman,
Per Attyys. Reynolds & Howell.

UNITED STATES PATENT OFFICE.

FREDERICK J. GILMAN, OF COTE DES NEIGES, QUEBEC, CANADA.

DAMPER FOR STOVE-PIPES AND FLUES.

SPECIFICATION forming part of Letters Patent No. 314,121, dated March 17, 1885.

Application filed June 16, 1884. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK J. GILMAN, of the parish of Cote des Neiges, in the county of Hochelaga and Province of Quebec, Canada, have invented certain new and useful Improvements in Dampers for Stove-Pipes and Flues; and I do hereby declare that the following is a full, clear, and exact description of the same.

The invention consists in the peculiar construction of the spring-damper and its automatically-operating closing devices, as fully hereinafter explained.

Its construction may be thus described: Upon the end of the axis or spindle of the damper is placed a coiled spring having its end secured to another pin passing through the pipe or flue, its action being, unless otherwise overcome, to keep the damper shut. I provide, however, for the purpose of overcoming the force of this spring a strip of metal which will fuse, become brittle, or otherwise sunder by heat, zinc being used by preference. One end of this strip is secured to the damper and the other at any convenient point on or outside the pipe or flue. Directly the chimney or flue takes fire and the blaze reaches the damper, this metal strip, which has hitherto held the damper open, is fused or otherwise broken or sundered, the damper thus released being closed by the spring, and the fire thus instantly extinguished.

For full comprehension of the invention reference must be had to the annexed drawings, in which Figure 1 is a vertical section through a chimney, showing my invention in position with damper open; and Figs. 2 and 3 views in detail showing the damper respectively open and shut.

Similar letters of reference indicate like parts.

A is the pipe or section of the chimney in which the invention is placed, usually situated near the ceiling of the room and above the point at which the flue is likely to take fire.

B is the damper, and *b* its spindle, round which is coiled the spring C, one end of which is fastened to the pin D, passing through the flue or pipe.

E is the metal strip, preferably of zinc, having one end, as shown, attached to a hook near the periphery of B, and the other secured at any point in or outside the pipe, any usual device being provided for the purpose.

It will of course be understood that the damper is not closed by the heat generated in the stove, and that for that purpose the strip E must be acted upon by the blaze arising from the chimney being on fire.

The damper may be opened by the key or any usual device, and the strip when fused be replaced.

What I claim is as follows:

1. The combination, with a damper-plate having its spindle provided with a coiled spring, of a fusible band connected directly to such damper-plate, and adapted to operate substantially as described.

2. The combination of the pipe A, the damper-plate B, the pin D, spring C, and fusible strip or band E, all substantially as described.

Montreal, 3d day of June. A. D. 1884.

FREDERICK J. GILMAN.

In presence of—

FRAS. HY. REYNOLDS,
C. R. McDOWELL.