(No Model.)

W. E. QUIGGLE.

STOVE PIPE DAMPER.

No. 265,982. Patented Oct. 17, 1882.

Fig. 1.

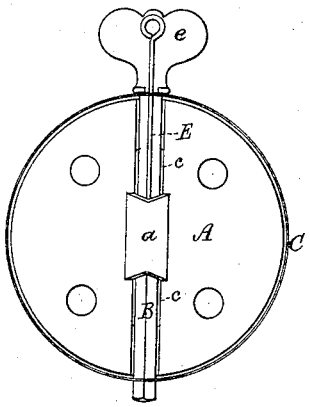


Fig. 5.

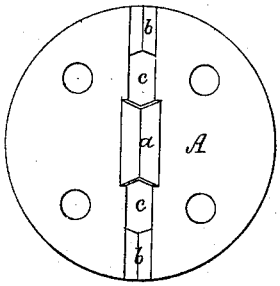


Fig. 6.

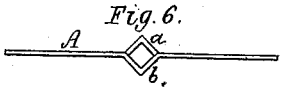


Fig. 2.

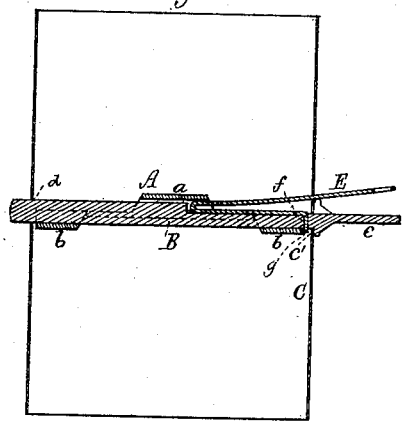


Fig. 3.

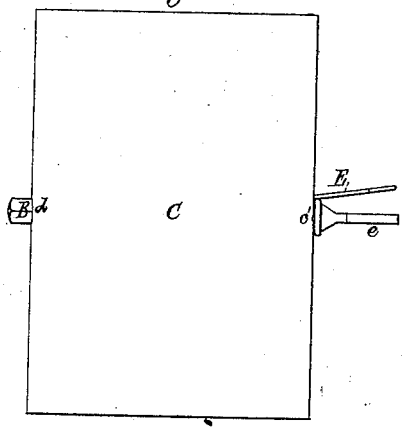


Fig. 4.

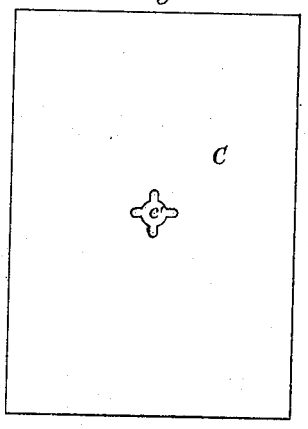


Fig. 9.

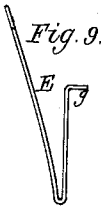


Fig. 7.

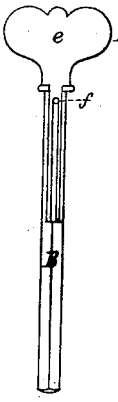
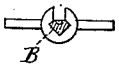


Fig. 8.



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UNITED STATES PATENT OFFICE.

WILLIAM E. QUIGGLE, OF DEDHAM, MASSACHUSETTS.

STOVE-PIPE DAMPER.

SPECIFICATION forming part of Letters Patent No. 265,982, dated October 17, 1882.

Application filed August 21, 1882. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM E. QUIGGLE, of Dedham, in the county of Norfolk, of the State of Massachusetts, have invented a Stove-Pipe-Damper Supporting and Locking Mechanism; and I do hereby declare the same to be described in the following specification and represented in the accompanying drawings, of which—

Figure 1 is a top view, Fig. 2 a vertical cross-section, and Fig. 3 a side view, of a short piece of stove-pipe with a damper and its locking mechanism in accordance with my invention, the nature of which is defined in the claims hereinafter presented. Fig. 4 is a view of the latching or cruciformed opening for reception of the damper-spindle and its elastic latch. Fig. 5 is a top view, and Fig. 6 an edge elevation, of the damper. Fig. 7 is a top view, and Fig. 8 a transverse section, of the damper-spindle without the spring-latch. Fig. 9 is a side view of the latch.

The damper is shown at A, its spindle at B, the piece of stove-pipe at C, and the spring-latch at E. The damper is raised angularly at its middle part, as shown at *a*, and depressed angularly at its opposite edges, as shown at *b b*, and slotted, as shown at *c c*, between the elevation and the two depressions, such being to enable the damper to receive and hold the spindle that goes through it and the pipe in manner as shown, such pipe being provided with holes *c'* and *d* for receiving the spindle. The hole *d* is circular, while that marked *c'* is cruciated, or essentially in the form of a Maltese cross, the said hole *c'* being next to the flat knob *e* of the spindle. Close to the said knob there is a hole, *f*, made down through the spindle to receive the bent-down portion *g* of a V spring or latch, E, arranged with the spindle in manner as represented. The spindle is recessed or grooved to receive the shorter arm of the latch, the longer arm of such latch being extended through the cruciated hole *c'* and over the knob *e*. The spring-latch at its vertex extends within the median angular projection of the damper, which serves to aid in holding the latch in place on the spindle. The spring-latch and the cruciated or cruciformed hole *c'* answer to retain the damper either closed or open in the pipe, the latch while in either arm of the hole operating to press the spindle into the opposite arm.

The bent-down portion *g* of the latch may extend a short distance beyond the spindle, in order that when such spindle is in either arm of the cruciformed hole the part *g* may serve to keep the spindle from being accidentally drawn out or back within the pipe and damper.

My invention differs from any thing shown or described in the United States Patents numbered 160,386 and 191,646, as I do not have a lug to the damper-spindle nor have to move the spindle axially to carry said lug either into or out of one of a series of notches in the pipe, nor do I have a notch in the spindle, nor a spring to operate to force such notch downward to prevent motion of the spindle axially thereof; but I have the spindle recessed and bored to receive the V-spring, and have the said V-spring arranged in the recess and extended under the raised part *a* of the damper and formed with the portion *g* to enter the hole *f* bored in the spindle, the said V-spring also being extended through the cruciform bearing-hole of the pipe. Therefore

What I claim is as follows, viz:

1. The damper-spindle recessed or grooved on its top and provided with the hole *f*, as described, in combination with the stove-pipe having the cruciform opening to receive such spindle, and also with the V-spring arranged in the recess or groove and hole of the spindle and in the said opening of the pipe, all being substantially as set forth.

2. The stove-pipe having the cruciform spindle-bearing hole, and the damper having the raised part *a* and depressed parts *b b*, as shown, in combination with the spindle arranged in the damper and grooved or recessed and provided with the hole *f*, as described, and with the V-spring arranged in the hole and recess and extended through the said bearing-hole and underneath the raised part *a*, all being substantially as set forth.

WM. E. QUIGGLE.

Witnesses:
E. B. PRATT,
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