

(No Model.)

W. P. WALTER.
FLUE THIMBLE AND STOPPER.

No. 348,435.

Patented Aug. 31, 1886.

Fig. 1-

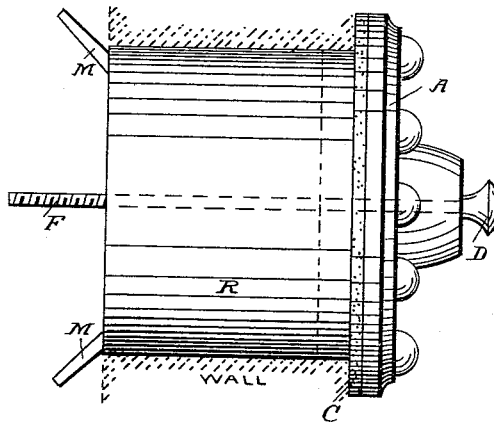


Fig. 2-

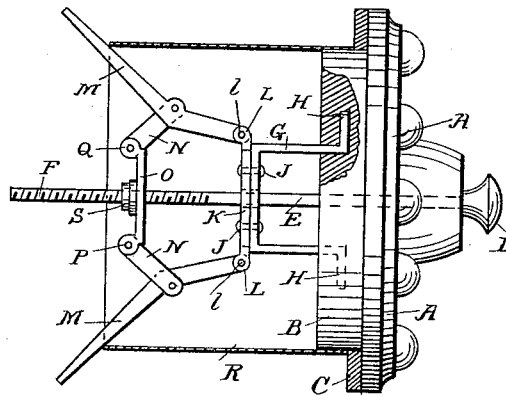


Fig. 3-

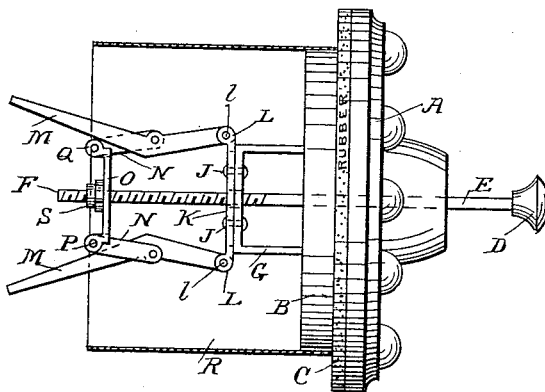


Fig. 5-

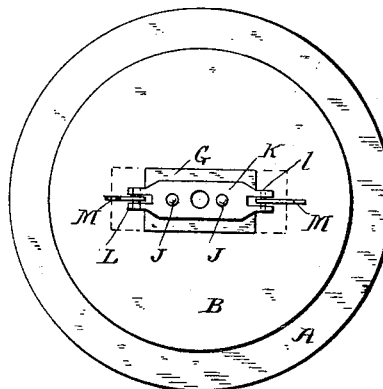
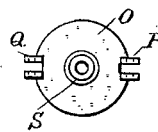


Fig. 4-



Witnesses

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Inventor

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UNITED STATES PATENT OFFICE.

WILLIAM PENN WALTER, OF NEWTON, KANSAS.

FLUE THIMBLE AND STOPPER.

SPECIFICATION forming part of Letters Patent No. 348,435, dated August 31, 1886.

Application filed September 8, 1884. Serial No. 142,461. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM PENN WALTER, a citizen of the United States, residing at Newton, in the county of Harvey and State of Kansas, have invented a new and useful Flue Thimble and Stopper, of which the following is a specification.

My invention is an improvement in flue thimbles and stoppers; and the object which I desire to accomplish is to construct an article that will thoroughly stop up flue-holes when they are not in use, and at the same time prevent damp, soot, or the odor of soot from penetrating into rooms, and while in use being an ornamental picture-holder. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation showing the attachment of the thimble to the wall. Fig. 2 is a side elevation, partly in section, showing the position of the grip-arms when the thimble is in use. Fig. 3 is a similar view showing the position of the grip-arms and regulating-screw when not in use. Fig. 4 is a front elevation of the regulating-disk. Fig. 5 is a front elevation of the standard-plate and attachments for holding the movable grip-arms.

Similar letters refer to similar parts throughout the several views.

The ornamental disk A, with the flange B and the adjustable washer C, constitutes the outer or visible part of the thimble in conjunction with the movable handle D. To this handle D is attached a metal rod, the extreme end of which is formed as a screw, the thread of which is run more than half-way along the said iron or metal rod, said rod being marked E, and the said screw being marked F.

G is a metal standard-plate, the ends of which have arms H, which are molded or cast into the flange B when the said flange is made of plaster or other plastic material. When the flange B is made of wood, the ends of the plate may be driven into it, like a staple, and the arms H will not be required. To this standard-plate there is attached by means of rivets (marked J) a brace-plate, (marked K.) At the ends of this plate there are two slots, (marked L) in which work the movable arms M upon pins I.

To each of the arms marked M there is attached a regulating-arm, (marked N,) these

regulating-arms being attached to the disk O by means of pivots and slots, as shown by P and Q.

On the disk O, and forming a part thereof, there is a metal hub, which is provided with a screw-threaded hole for the screw F to run into, said hub being marked S.

R is a tube made to fit into the flue-hole the depth of the wall, and acting as a shield or covering to the unexposed part of the stopper.

The method of using my invention is as follows, viz: Having placed the metal tube R in the flue-hole of the wall, the washer C, which may be of india-rubber or other similar elastic or water-proof material, is placed against the face of the wall. The flange B and the fastening mechanism are inserted into the tube R through the hole in the washer, so that the screw F may engage with the screw-threaded hole in the hub S. The handle D is then revolved until the arms M are fully spread out against the end of the tube R and the handle is tight against the ornamental disk, and the flue-hole is securely closed.

While in use, the disk A will be ornamental, and the handle D can be used as a support for picture-cords.

What I claim, and desire to secure by Letters Patent of the United States, is—

1. The combination of a disk for closing a flue-hole, movable arms pivotally supported by the disk, a hub pivotally connected to the said arms, and a screw-threaded rod passing through the disk and engaging with the hub for spreading the arms and securing the disk in place.

2. The combination of a disk for closing a flue-hole, an elastic washer upon the inner face of the disk, movable arms pivotally supported by the disk, a hub pivotally connected to the said arms, and a screw-threaded rod passing through the disk and engaging with the hub for spreading the arms and securing the disk in place.

3. The combination of a disk for closing a flue-hole, a tube fitting into the flue-hole, movable arms pivotally supported by the said disk and projecting through the said tube, a hub pivotally connected to the said arms, and a screw-threaded rod passing through the disk and engaging with the hub for spreading the arms and securing the disk to the tube.

4. The combination of a tube fitting into the
flue-hole, a disk provided with a flange fitting
into the outer end of the tube, a standard-plate
projecting from the said flange, movable arms
5 pivotally supported by the standard-plate, a
hub pivotally connected to the said arms, and
a screw-threaded rod passing through the disk
and engaging with the hub for pressing the
projecting ends of the arms against the inner
10 end of the said tube.
5. The combination of a tube fitting into the
flue-hole, a disk provided with a flange fitting
into the outer end of the tube, an elastic wash-
er upon the inner face of the disk, a standard-
15 plate projecting from the said flange, movable

arms pivotally connected to the standard-plate,
a hub pivotally connected to the said arms,
and a screw-threaded rod passing through the
disk and engaging with the hub for pressing
the projecting ends of the arms against the in- 20
ner end of the said tube.

6. The combination of the handle D with
the rod E, screw F, standard-plate G, brace-
plate K, rivets J, slots L, movable arms M,
regulating-arms N, disk O, pivots and slots P 25
and Q, hub S, and tube R.

WILLIAM PENN WALTER.

Witnesses:

PERRY WALKER,

FREDERICK WORSLEY.