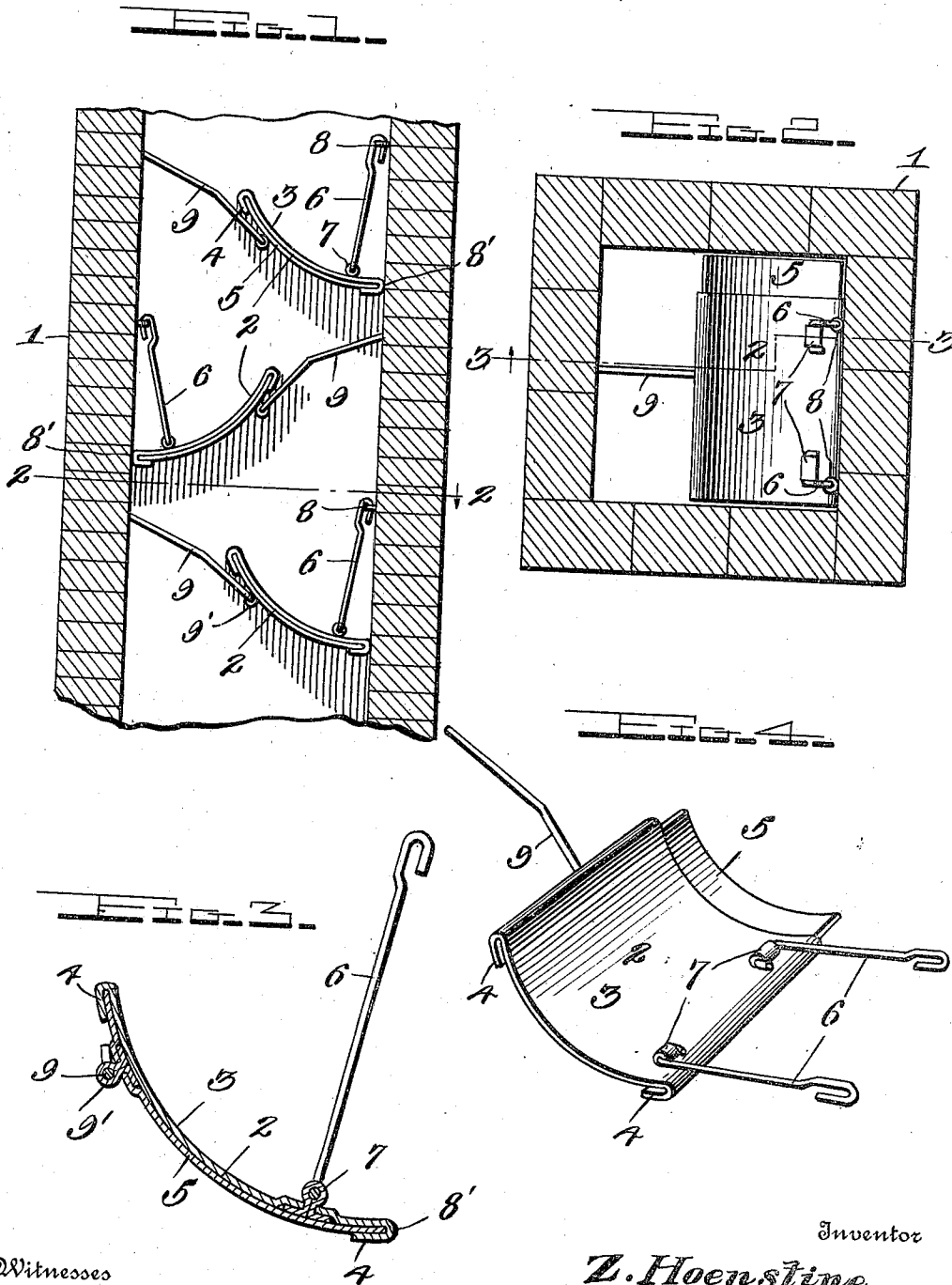


Z. HOENSTINE.
 BAFFLE PLATE FOR CHIMNEYS.
 APPLICATION FILED JUNE 3, 1912.

1,043,837.

Patented Nov. 12, 1912.



Witnesses

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ZIGLER HOENSTINE, OF ANACONDA, MONTANA.

BAFFLE-PLATE FOR CHIMNEYS.

1,043,837.

Specification of Letters Patent.

Patented Nov. 12, 1912.

Application filed June 3, 1912. Serial No. 701,281.

To all whom it may concern:

Be it known that I, ZIGLER HOENSTINE, a citizen of the United States, residing at Anaconda, in the county of Deerlodge and State of Montana, have invented certain new and useful Improvements in Baffle-Plates for Chimneys, of which the following is a specification, reference being had to the accompanying drawings.

This invention comprehends certain new and useful improvements in baffle plates for chimneys and relates more particularly to plates of this nature designed to prevent a down draft of air within the chimney.

The primary object of the invention is to provide a baffle plate which may be easily adjusted to fit any size chimney.

Another object of the invention is to provide improved means for attaching baffle plates of this nature in position within the chimney.

The invention also aims to generally improve devices of this nature to render them more useful and commercially desirable.

It is a well known fact that where chimneys are surrounded by buildings which extend above the tops of said chimneys, that there is a tendency for the air currents to be directed downwardly upon said chimneys. This is very disadvantageous as it causes the fire to burn unevenly and also forces smoke down the chimney. My invention is designed to be applied to such chimneys where there may be a down draft of this nature and it will effectively prevent passage of the air through the chimney.

With these and other objects in view as shall become apparent as the description proceeds, the invention consists in certain novel constructions and arrangement of parts as I shall hereinafter fully describe and claim.

For a complete understanding of my invention, reference is to be had to the following description and accompanying drawings in which,

Figure 1 is a side elevation of a chimney partly in section showing my improved baffle plates secured therein; Fig. 2 is a top view taken on the plane of line 2-2 in Fig. 1; Fig. 3 is a transverse sectional view taken on the plane of line 3-3 of Fig. 2; and Fig. 4 is a detail perspective view of my invention.

Referring to the drawings by numerals, 1 designates a chimney of the ordinary con-

struction to which I have shown attached, my improved baffle plates 2. These plates are formed in sections which telescope one within the other. The upper section 3 has its longitudinal edges bent downwardly and back against the under side of the plate to form retaining flanges 4. The lower section 5 is retained in position on the upper section by having its longitudinal edges supported by the guide flanges 4. This arrangement permits the plates to be adjusted to fit any width of chimney. To support the plates within the chimney, I provide the hangers 6. The lower ends of the hangers 6 are secured to the upper section 3 of the baffle plates 2 by the connecting plates 7. These connecting plates have a central portion which passes over the inturned ends of the hangers 6. The ends of these supporting plates are passed downwardly through slots in the baffle plate and bent against the under side of said baffle plate in opposite directions and secured thereto in any suitable manner. The upper ends of the hangers 6 are removably secured to suitable fastening means 8.

In applying these baffle plates to the chimney 1, they are positioned transversely of said chimney and have their outer edges 8' abutting against the chimney wall. Their inner edges are supported by the rod 9 which is secured to the under section 5 by the connecting plate 9' and engages the opposite side of the chimney from that to which the hangers 6 are connected. These plates have their upper surfaces concave and when in position they are inclined upwardly. The inner edge of each plate projects beyond the longitudinal center of the chimney so that any air which succeeds in passing below the upper plate will strike against the next lower plate and be turned from its downward course. The angle at which the plates hang within the chimney can be easily adjusted by changing the length of the supporting rods 9.

From the foregoing description in connection with the accompanying drawings, it will be seen that I have provided a telescoping baffle plate which may be easily positioned within a chimney and which may, when not in use, be folded into a compact form. The telescoping feature of this baffle plate, I consider of much importance since it makes it possible to easily adjust the plate to fit various widths of chimneys.

It will be understood that while I have

shown a preferred form of my invention, I do not wish to be limited to the exact structure herein described and shown, but may make such changes as lie within the scope of the invention as defined by the appended claims. It is to be further understood that these baffle plates may be made semi-circular in shape so that they may be used on circular chimneys.

10 What I claim is:—

1. A device of the class described, comprising a baffle plate, a hanger pivotally secured at one end to the upper side of said plate adjacent one edge thereof, the other end of said hanger being adapted to be secured to the inner wall of a chimney, and a supporting rod pivotally connected at one end to the under side of the baffle plate, the other end of the supporting rod adapted to rest against the interior wall of the chimney, the angle at which the baffle plate is supported being dependent upon the length of said supporting rod.

25 2. A device of the class described comprising a baffle plate formed of telescopic sections whereby the plate may be adjusted to fit chimneys of different sizes, hangers pivotally secured at one of their ends to the upper side of said plate adjacent one edge thereof, the other ends of said hangers being fixed to the interior wall of a chimney, and a supporting rod pivotally secured at one

end to the under side of the baffle plate adjacent its inner edge, the free end of the supporting rod adapted to rest against that interior wall of a chimney which is opposed to the wall which supports the hangers, the angle at which the baffle plate is held being dependent upon the length of the supporting rod.

3. A device of the class described, comprising a baffle plate, hangers pivotally secured at one end to the upper side of said plate near one edge thereof, each of said hangers comprising a rod bent laterally at one end and having a hook formed on its free end for engagement with a suitable retaining member, a supporting rod pivotally connected at one end to the under side of said baffle plate and adapted to bear loosely against the chimney wall, said supporting rod having one end bent laterally, connecting plates passing over the bent ends of said hangers and supporting rod and through the baffle plate, the end portions of said connecting plates being bent in opposite directions.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

ZIGLER HOENSTINE.

Witnesses:

C. C. ALBRIGHT,
BESSIE HOENSTINE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."