W. GRIFFITH.

Fastening for Chimney Cap Plates.

No. 44,182. Patented Sept. 13, 1864.

Fig: 2.

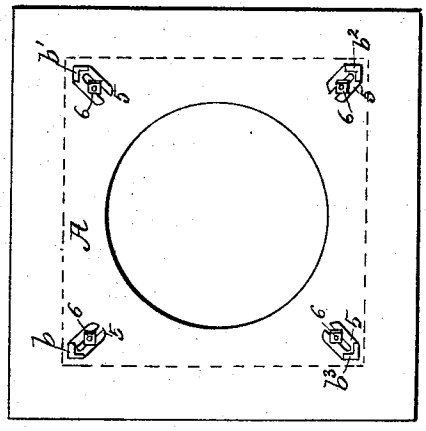
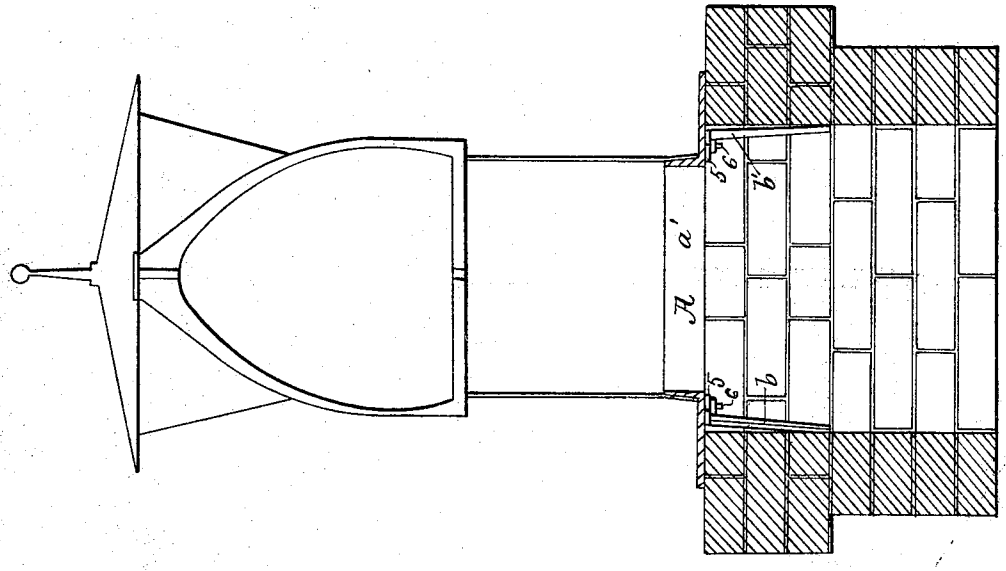


Fig: 1.



Witnesses.
Jno Brandon
B F Shallusk

Inventor.
Wm Griffith

N. PETERS. Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

WILLIAM GRIFFITHS, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVED FASTENING FOR CHIMNEY CAP-PLATES.

Specification forming part of Letters Patent No. **44,182**, dated September 13, 1864.

To all whom it may concern:

Be it known that I, WILLIAM GRIFFITHS, of the city of Philadelphia, in the State of Pennsylvania, have invented a new and useful Improvement in the Mode of Fastening Chimney Cap-Plates; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a vertical section, and Fig. 2 a plan view of the under side of one of the said caps having my improvement applied thereto, like letters of reference indicating the same parts when in both figures.

My invention relates to the mode of securing cast-iron plates on the tops of chimneys, and especially to the securing of the cap-plates to which the ventilators patented March 6, 1860, to Chadwick and Griffiths, are applied.

It consists, substantially as hereinafter described and specified, in constructing and adjustably applying to the under side of the cap-plate a series of rigid legs or binders in such a manner that, as the latter are being fastened to the former, resting on the chimney, the lower ends of the said legs can with facility be caused thereby to press continuously against the interior corners of the chimney, and thus hold the plate down upon the top of the chimney in a more firm or substantial and durable manner than heretofore.

In the drawings, A, is the cap-plate, and *b* b' b^2 b^3 the adjustable legs or binders. The cap plate A is simply a flat plate of cast-iron, having a flue opening in its center which is bounded by a flange, *a*, on the upper side of the plate for receiving over it the ventilator.

The faint lines above the plate A in Fig. 1 indicate one of Chadwick and Griffith's ventilators applied, while the faint lines below it indicate the brick-work of a chimney-top in relation to the said plate and its fastenings.

The legs or binders *b* are each made of cast-iron, and so that its transverse section will present a rectangular back, substantially as shown in Fig. 2, or so that it will fit the inner corners of the chimney to which it is to be applied. The upper end of each of the said legs is also cast or formed so as to have a slotted flange, 5, projecting inward at an obtuse angle from the back, so that when the said flange or upper end of the leg is applied firmly and flatly against the under side of the plate A the former will be inclined outward from the perpendicular, substantially as seen in Fig. 1

The legs *b* are each held firmly to the plate A in the inclined position described by means of the small screw and nut C, countersunk holes being made in the plate A at suitable positions for the reception of the several screw-bolts 6 at the time of applying the plate to the chimney.

The old mode of fastening down cap-plates by means of thin iron straps *c* nailed to the brick-work not only fails to give the required stability, but the straps soon rust away and require renewal, whereas it will here be readily seen, as the bolts C pass through the slotted flanges 5, and also through the plate A, that when the nuts are screwed up tightly the lower ends of the rigid legs *b* will be thrown outward so as to press firmly into the inner corners of the chimney, and thus hold the said plate firmly in position upon the top of the chimney, and in a more durable manner also, because of being covered from the rains or wet weather, as shown in Fig. 1. It will also be seen that as the flanges 5 of the legs are slotted perfect facility is afforded thereby for applying and adjusting the legs so as to cause their lower ends to bear firmly against the inner side of the chimney notwithstanding the usual irregularities of the brick-work at this part.

Having thus fully described my improvement and shown its utility, what I claim as new therein of my invention, and desire to secure by Letters Patent, is—

Securing the cap-plate of a chimney by means of adjustable legs or binders *b*, constructed and applied so as to operate substantially in the mode described, for the purposes specified.

WM. GRIFFITHS.

Witnesses:

BENJ. MORISON,

B. F. SHATTUCK.