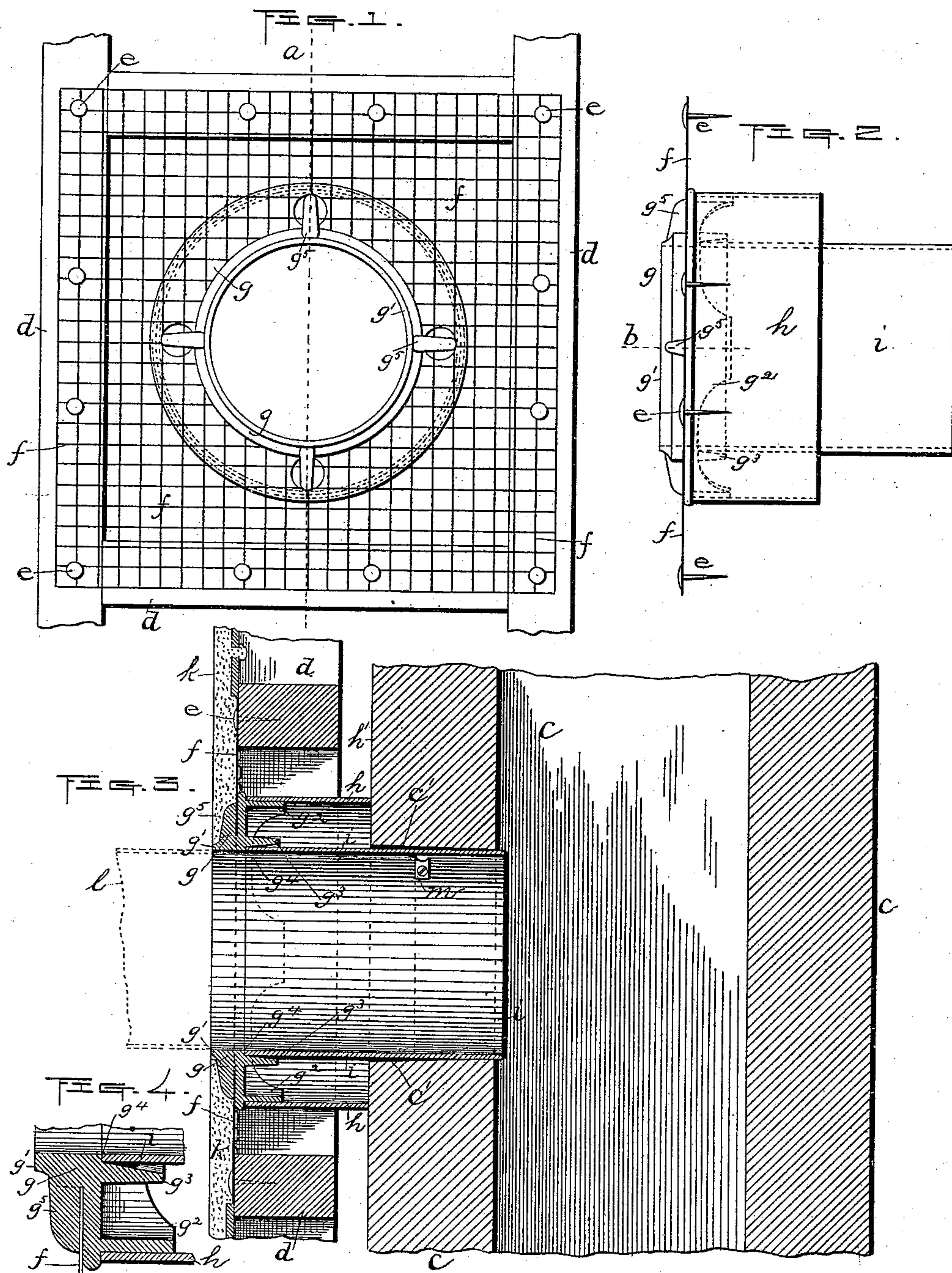


(No Model.)

P. D. SEXTON.
CHIMNEY THIMBLE.

No. 370,420.

Patented Sept. 27, 1887.



Witnesses;
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UNITED STATES PATENT OFFICE.

PATRICK D. SEXTON, OF WORCESTER, MASSACHUSETTS.

CHIMNEY-THIMBLE.

SPECIFICATION forming part of Letters Patent No. 370,420, dated September 27, 1887.

Application filed March 30, 1887. Serial No. 233,082. (No model.)

To all whom it may concern:

Be it known that I, PATRICK D. SEXTON, of Worcester, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Chimney-Thimbles; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, and in which—

Figure 1 represents a front view of my improved thimble fastened in position ready for plastering. Fig. 2 is a side view of the thimble. Fig. 3 is a central vertical section through the parts shown in Fig. 1, taken on line *a*, same figure; and Fig. 4 is a section, upon an enlarged scale, taken on line *b*, Fig. 2, through a portion of one side of the thimble.

My invention comprises a wire screen or netting having an opening therein and means for fastening the outer edges thereof to the wood frame-work around the thimble-opening, a circular flanged frame having suitable hooks for holding the same in said screen, an outer casing fitted to and held by said circular frame and adapted to bear against the outer surface of the chimney, and an inner adjustable pipe fastened at one end in the chimney-opening and at its other end resting loosely in the circular frame, said parts being constructed and arranged as hereinafter more fully specified, for the purpose set forth.

A better understanding of my invention may be had from the following detailed description. Referring to the drawings, the part marked *c* represents part of an ordinary chimney having an opening therein to receive the thimble. The parts *d* show the frame-work of wood around said thimble-opening. To the face of said wood-work is fastened, by means of large tacks *e* or other suitable fastenings, the outer edges of a wire screen or netting, *f*, having an opening therein to receive a circular collar or frame, *g*. Said collar is made with a face-rim, *g'*, and two inwardly-projecting flanges, *g''* *g'''*, also being provided with a shoulder, *g''''*, and with holding hooks or flanges *g''''''*, four of the latter in this instance.

The part *h* is an outer casing fitted over the flange *g''*, and extending between collar *g* and the outer face, *h'*, of the chimney when the

thimble is fitted in position for use, as shown in Fig. 3.

The part *i* is an inner pipe, one end of which is extended through the thimble-opening in the chimney and fastened therein, as is usual for common thimbles. The other end of said pipe extends nearly or quite up to the shoulder *g''''* on collar *g* inside of the flange *g'''*, and said flange is made considerably flaring upon the side next to pipe *i*, as is shown in Figs. 3 and 4, for the purpose of admitting of considerable play between said pipe *i* and the collar. Therefore it is obvious that if an unequal settlement of the chimney or wood-work occurs the aforesaid parts adjust themselves to said settlement; or, in other words, the outer end of pipe *i* has sufficient movement in the collar to allow either the chimney or the wood-work to settle without injury to the plastering, which fact I have fully demonstrated in practice. The opening in the chimney to receive pipe *i* is preferably made a trifle flaring toward the outside, as indicated by heavy lines *c'*, so as to facilitate the aforesaid self-adjustment and prevent the usual bulging or breaking of the plastering.

By the foregoing construction and arrangement it will be seen that an air-space is provided between the inner pipe, *i*, and outer casing, *h*, and also between said outer casing, *h*, and the wood-work, thereby removing all liability to fire around the thimble. The outer end of said thimble being supported by the wire screen *f*, instead of by brick-work, as usual, allows of the adjustment in case of unequal settlement, as previously specified, while at the same time affording an effectual protection against fire. Said wire screen *f* not only serves as a support for the thimble, but also for the plastering *k*, in place of the usual wood lathing, which is extended only to the outer edge of said screen in this instance, the whole being plastered over flush with the face of the rim *g'* on collar *g*, as shown in Fig. 3, to produce a smooth outer surface. When the smoke-funnel *l* (shown by dotted lines in said figure) is inserted into the thimble, three separate thicknesses of incombustible material are interposed between the fire and wood-work, in addition to the wire screen and air-spaces previously described.

If desired, a stop or gage, *m*, may be formed upon or secured to the inner surface of pipe *i* to govern the distance that the smoke-funnel is to be inserted into the thimble, thus obviating any liability of pushing the same in too far across the chimney-flue, as often occurs where such a stop is not used.

In fitting the screen *f* to collar *g* said screen is placed so that its opening will come over the rim *g'*. It is then pressed down over the holding-hooks *g⁵*, being so arranged as to bring the open edges of the wire mesh (produced by cutting the opening) over said hooks, thus allowing the hooks to be forced up through said open edges. By then turning the screen the wires thereof are brought under said hooks and the collar and said screen thereby fastened together, as shown in the drawings. Any other equivalent means of fastening said parts may be employed, if desired, in lieu of said holding-hooks; and although metal is preferable, any other material or materials suitable for the purpose may be employed in the construction of the thimble.

Having described my invention, what I claim therein as new and of my invention is—

1. A thimble for chimneys comprising, in combination, a face-screen of wire provided with a central opening, whereby the outer end of the collar may be inserted and supported in said screen, said collar having a face-rim to

plaster against and suitable means for fastening the collar to the screen; also provided with two inwardly-projecting flanges, an inner pipe having a support at one end in the chimney and at its other end in the collar, and an outer casing interposed between the collar and chimney when the thimble is fitted in position, substantially as set forth.

2. The combination of the adjustable pipe *i*, having a bearing at one end in the chimney and at its other end in collar *g*, with said collar *g*, having a flange to hold the outer end of said pipe *i* and a flange or rim to plaster against; also provided with means for fastening it to wire screen *f*, and said wire screen having an opening to receive collar *g*, and means for fastening its outer edges to the wood-work around the thimble-opening, substantially as shown and specified.

3. The combination of a chimney-thimble with a piece of wire netting or screen for supporting the outer end thereof, adapted to be fastened to the wood-work around the thimble-opening, and upon which the mortar used to cover the walls may be spread, substantially as and for the purpose set forth.

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Witnesses:

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