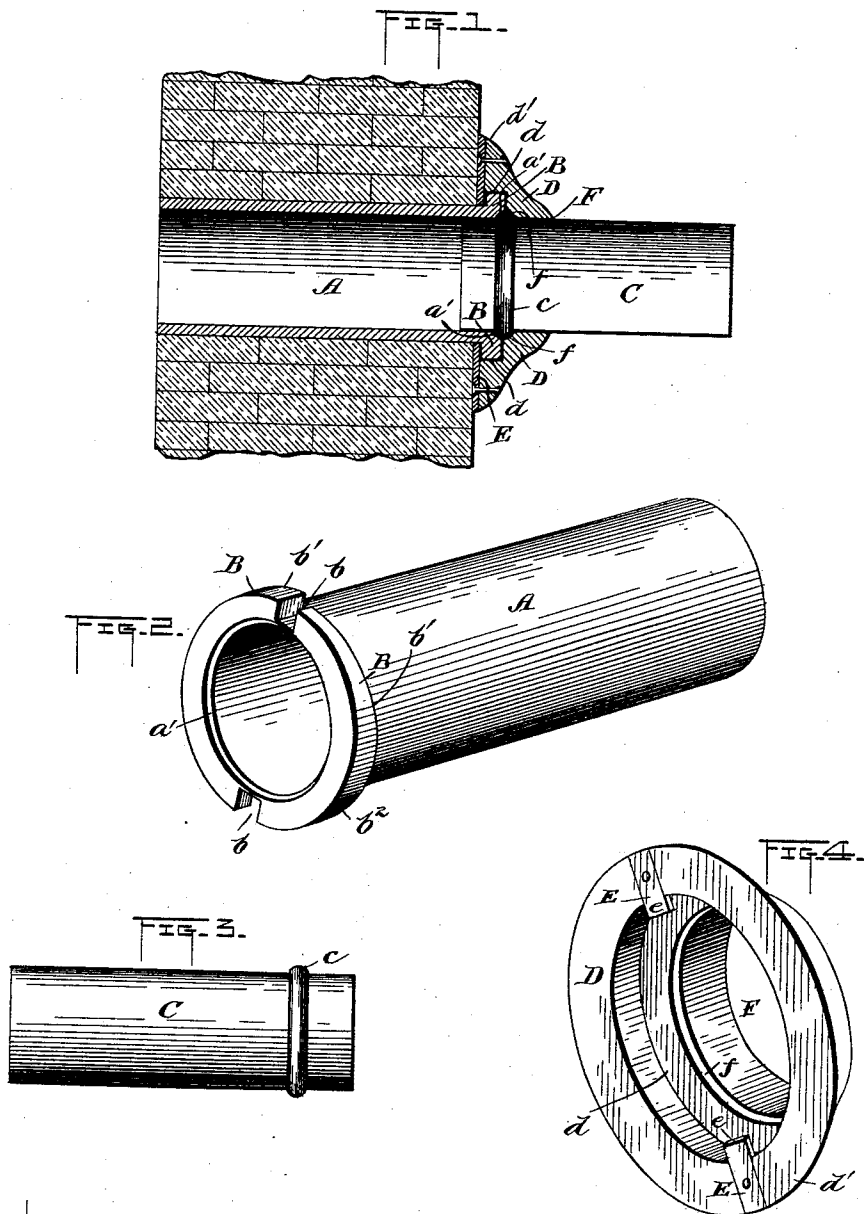


(No Model.)

W. BALES.
STOVEPIPE THIMBLE.

No. 484,694.

Patented Oct. 18, 1892.



Witness:
J. J. Barden.

Witness:
William Bales.
By L. Deane.
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UNITED STATES PATENT OFFICE.

WILLIAM BALES, OF CLINTON, INDIANA.

STOVEPIPE-THIMBLE.

SPECIFICATION forming part of Letters Patent No. 484,694, dated October 18, 1892.

Application filed March 19, 1890. Serial No. 344,511. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM BALES, a citizen of the United States, residing at Clinton, in the county of Vermillion and State of Indiana, have invented certain new and useful Improvements in Stovepipe-Thimbles; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The invention relates to improvements in stovepipe-fasteners of the class whereby stoves are connected with the pipe-thimbles of chimneys, the object being to render the joint between the base of the pipe-collar and the wall of the chimney and the joint between the pipe-thimble, pipe-collar, and section of the pipe connected to the stove more than ordinarily tight, so that no smoke nor unwholesome gases can escape through either.

The invention consists in the construction, arrangement, and novel combination of parts hereinafter described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

In the drawings, in which similar letters of reference indicate corresponding parts, Figure 1 represents a central longitudinal section of a section of stovepipe, pipe-collar, and pipe-thimble combining to form a fastener embodying the invention, the thimble being set in a flue-opening. Fig. 2 represents a perspective view of the pipe-thimble detached. Fig. 3 represents a side view of the stovepipe-section detached. Fig. 4 represents a perspective view of the pipe-collar detached and looking toward its base.

Referring to the drawings by letter, A designates a cylindrical pipe-thimble set securely by cement or otherwise in the inlet of the chimney with which it is desired to connect a stove. (Not shown.) The said thimble is provided at its outer end with two similar opposite nearly-semicircular cam-flanges B, which stand laterally from said end and have between them the notches *b b*, the bottoms of which are about flush with the outer surface of the thimble A. The cam-flanges B have their outer surfaces at right angles to the end of the thimble, which is provided with an internal circumferential bevel *a'* at the junction of its bore with said flanges, and the

inner inclined or cam surfaces *b' b'* of said flanges extend from one end of each flange at an adjacent notch *b* to a point *b²* not very far distant from the other end of said flange.

C is a section of stovepipe having a diameter of proper size for its end to fit snugly within the outer or adjoining end of the pipe-thimble and provided near said end with an outstanding circumferential bead *c*, spun up or otherwise produced, which when the parts are in place rests and fits closely against the bevel *a'* in the end of the pipe-thimble.

D is the pipe-collar, which may be of cast metal and which has a circular recess *d* in its base of proper size to receive closely the cam-flanges B of the pipe-thimble.

E are catches or lugs set opposite each other in transverse notches in the base of flange *d'* of the pipe-collar with their outer surfaces flush with the base of said collar and their facing-points *ee* standing inward and of suitable width to enter, respectively, the opposite notches *b b* between the cam-flanges B.

F is the central pipe-opening in the outer end of the pipe-collar and having the circumferential bevel *f* at its inner end, against which bevel the outer side of the bead *c* of the pipe-section C rests when the said pipe is passed outward through the opening F of the pipe-collar, in which opening said pipe fits snugly. Thus when the parts are in place the said bead is pressed on opposite sides by the bevel *f* of the collar and the bevel *a'* of the thimble, respectively.

To fit the parts of the fastener together, the pipe-section C is passed through the opening F in the collar till the bead *c* rests firmly against the bevel *f* of said collar. The said cap is then turned in the proper direction to cause the points *e* of the catches or lugs E to travel on the inclined surfaces *b'* of the cam-flanges B, which flanges stand from the wall of the flue a distance very slightly less than the thickness of the said points, so that when the collar is so turned up its base will bind firmly against said wall, making a very close joint between the two; also, by turning the collar up thus the bevel *a'* of the thimble is caused to press against the inner side of the bead *c* of the pipe C, and, as the bevel *f* of the collar is also drawn inward, the said bead is pressed in opposite directions on opposite

sides by said bevels and tends to extend itself outward between them, thus making a very close joint between pipe section, collar, and thimble.

5 I am aware that it is common to use in hose-pipe couplings and in various ways cam-flanges with oppositely-disposed seats and circumferential rings, all adapted to form an easily-used means for attaching or detaching
10 the two ends of the hose or pipe; but my invention is not one of that kind, nor adapted to the same uses, being merely a stovepipe-thimble or means for connecting the stove-pipe with the chimney-flue.

15 Having described my invention, I claim—
1. In a stovepipe connection, the combination of the stovepipe having at one end a circumferential outstanding bead with a pipe-collar having in the opening at the outer end
20 a circumferential bevel to hold the pipe-bead and on the other recessed and provided with

oppositely-disposed lugs, and the chimney-pipe thimble having at its outer end cams with suitable openings to receive the same, all as and for the purposes set forth. 25

2. In a stove-thimble, a recessed pipe-collar having instanding lugs or catches on its base and at one edge of its recess a circumferential bevel, combined with a beaded stovepipe and a chimney-thimble having a cam-flange
30 on its end suitably notched to receive the said lugs and beveled upon its inner edge, the beveled surfaces forming a cavity to receive the stovepipe-bead, all substantially as and for the purposes set forth. 35

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

WILLIAM BALES.

Witnesses:

OTIS C. PERRIN,
ISAAC H. STRAIN.