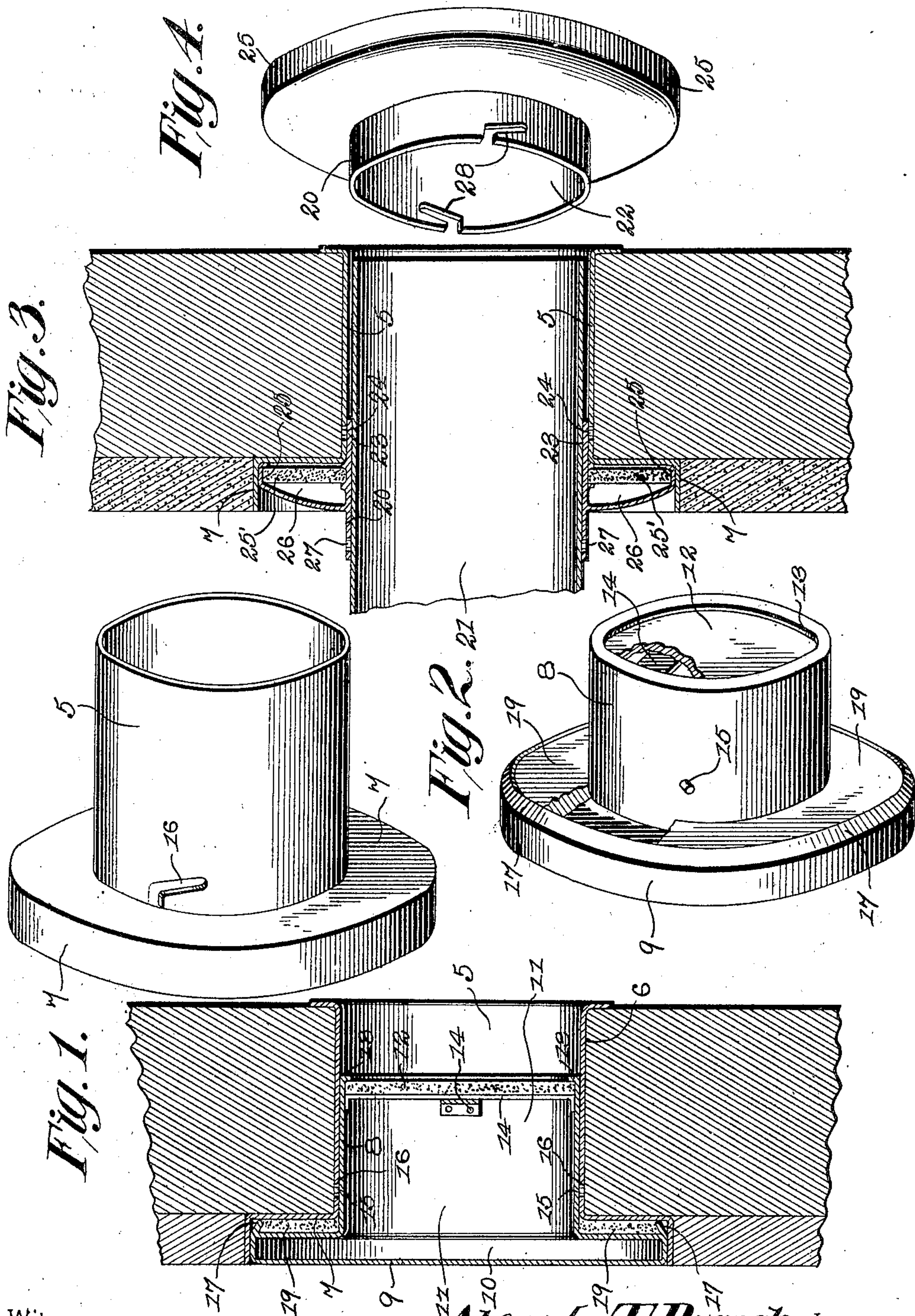


A. T. BURCH.
STOVEPIPE THIMBLE AND FLUE CAP.
APPLICATION FILED AUG. 4, 1904.



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UNITED STATES PATENT OFFICE.

ALFRED T. BURCH, OF HARVARD, ILLINOIS.

STOVEPIPE-THIMBLE AND FLUE-CAP.

No. 804,208.

Specification of Letters Patent.

Patented Nov. 14, 1905.

Application filed August 4, 1904. Serial No. 219,512.

To all whom it may concern:

Be it known that I, ALFRED T. BURCH, a citizen of the United States, residing at Harvard, in the county of McHenry and State of Illinois, have invented a new and useful Stovepipe-Thimble and Flue-Cap, of which the following is a specification.

This invention relates to a combined stovepipe-thimble and flue-cap, and has for its object to provide a simple, inexpensive, and efficient device of this character designed to be inserted in the opening in the chimney-breast when the stovepipe is removed, so as to form a closure for said opening, and thereby prevent soot and other products of combustion from entering the room.

A further object of the invention is to prevent the products of combustion from unduly heating the head or exposed portion of the cap by forming said cap with an intermediate air-chamber, and, further, to provide means for securely locking the cap within the thimble.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended, it being understood that various changes in form, proportion, and minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

In the accompanying drawings, forming a part of this specification, Figure 1 is a longitudinal sectional view of the thimble and cap, showing the same in position in a chimney-breast. Fig. 2 is a detail perspective view of the thimble and cap detached. Fig. 3 is a longitudinal sectional view showing the flue-cap removed and a section of stovepipe inserted in the thimble. Fig. 4 is a perspective view of the collar detached.

Similar numerals of reference indicate corresponding parts in all the figures of the drawings.

The invention consists of a thimble 5, the cylindrical body portion of which engages the opening 6 in the chimney-breast, as shown, while the forward end thereof is extended laterally to form an annular socket 7 for the reception of the head of the flue-cap 8. The cap 8 is provided with an enlarged head 9, the walls of which are spaced apart to form an annular air-chamber 10, which communicates with a cylindrical air-chamber 11, formed

by closing the rear end of the cylindrical body portion of the cap with a disk of asbestos or other suitable non-combustible material 12. The asbestos 12 is retained in position by an annular flange 13, formed on the rear end of the cap 8, and is held in engagement with said flange by transversely-disposed strips or bars 14, secured in any suitable manner to the side walls of the cap, as shown. The asbestos disk forms a closure for the inner end of the cap and serves to confine a body of air within the chamber 11, while the chamber 10 in the enlarged head of the cap prevents the heat conducted by the metal walls of said cap from unduly heating the head of the latter and the adjacent woodwork or other material. The cap is provided with oppositely-disposed locking lugs or pins 15, adapted to engage bayonet-slots 16, formed in the cylindrical body portion of the thimble, so that when the cap is introduced in the thimble and given a slight turn the parts will be securely locked together. The rear wall of the head 9 is extended to form an inclined flange 17, and seated against said wall and held in position by the flange 17 is a packing of asbestos 19, which effectively prevents any smoke or soot from passing between the walls of the thimble and cap and entering the room.

In connection with the thimble 5 I employ a collar 20 for securing a section of stovepipe 21 within the thimble when the cap is removed. The collar consists of a cylindrical body portion 22, provided with integral longitudinally-extending ears or arms 23, to which are secured in any suitable manner terminal lugs or pins 24, adapted to engage the bayonet-slots 16 in the thimble and by means of which the collar is locked to the chimney-breast. The collar is provided with an annular rim 25, which engages the annular socket in the flue-thimble 5, said rim being hollow and provided with a backing of asbestos or similar material 25' to form an air-chamber 26, similar to the air-chamber 10 in the flue-cap. As a means for retaining the stovepipe 20 within the thimble I provide said pipe with projecting lugs or pins 27, which engage bayonet-slots 28 formed in the body of the collar.

In practice the thimble is fastened in the opening in the chimney-breast with the annular socket thereof arranged flush with the plaster, so that when the flue-cap is inserted and given a slight turn the head of said cap will snugly fit the socket, as clearly shown in Fig. 1 of the drawings, thereby forming a

smooth surface, which may be subsequently papered or otherwise covered to give the same a neat appearance.

When it is desired to insert a pipe into the flue, the cap is removed and the collar inserted in the thimble and locked, after which the section of stovepipe is introduced and locked in the manner before described.

Two or more sections of pipe may be securely locked together by forming a bayonet-slot in the end of one pipe for engagement with a pin or lug on the end of the adjacent section of pipe, thereby dispensing with the use of wires and similar auxiliary fastening devices.

Having thus described the invention, what is claimed is—

1. In a device of the class described, a thimble having one end thereof extended laterally to form a terminal socket, and a closed tubular flue-cap having an enlarged head adapted to engage said socket, the walls of said head being spaced apart to form an air-chamber.

2. In a device of the class described, a thimble having one end thereof extended laterally to form a terminal socket, and a closed tubular flue-cap having an enlarged head adapted to engage said socket, the walls of said head being spaced apart to form an air-chamber, said thimble and cap being provided with interlocking parts.

3. In a device of the class described, a thimble having one end thereof extended laterally to form a terminal socket, a closed tubular flue-cap having an enlarged head adapted to engage said socket, the walls of said head being spaced apart to form an air-chamber, and a packing interposed between the head and socket.

4. In a device of the class described, a thimble having one end thereof extended laterally to form a terminal socket, and a tubular flue-cap having its opposite ends closed and one end thereof provided with an enlarged head adapted to engage said socket, the walls of said head being spaced apart to form an air-chamber.

5. In a device of the class described, a thimble having one end thereof extended laterally to form a terminal annular socket, and a tubular flue-cap having its opposite ends closed and one end thereof provided with an annular head adapted to engage said socket, the walls of said head being spaced apart to form an air-chamber, said thimble and cap being provided with interlocking parts.

6. In a device of the class described, a thimble provided with bayonet-slots and having one end thereof extended laterally to form a terminal socket, and a flue-cap having an enlarged head fitting within the socket and provided with laterally-projecting lugs adapted to engage said bayonet-slots for locking the parts together, the walls of said head being spaced apart to form an air-chamber.

7. In a device of the class described, a thimble having one end thereof extended laterally to form a terminal socket, a flue-cap provided at one end with an enlarged head adapted to engage said socket, the walls of said head being spaced apart to form an air-chamber, an annular flange formed on the opposite end of the cap, retaining-strips extending transversely across said cap, and a packing interposed between the flange and said retaining-strips.

8. In a device of the class described, a thimble having one end thereof extended laterally to form a terminal socket, a flue-cap having an enlarged head adapted to engage said socket, the walls of said head being spaced apart to form an air-chamber, an annular flange surrounding the head of the cap, and a packing carried by the cap and retained in position by engagement with said annular flange, said thimble and flue-cap being provided with interlocking parts.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

ALFRED T. BURCH.

Witnesses:

ALBERT BUTTS,
W. A. SNITKEY.