

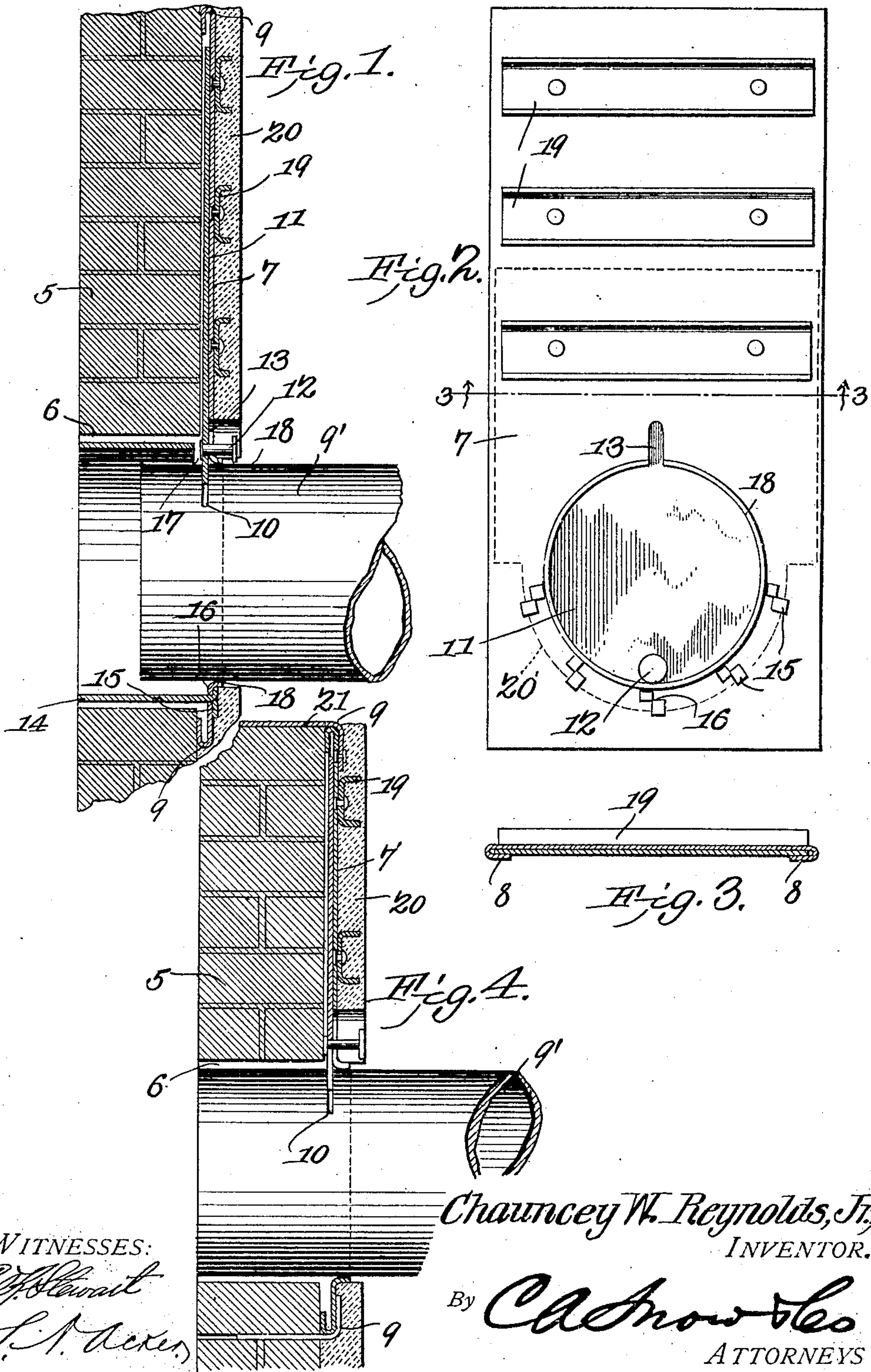
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PATENTED APR. 9, 1907.

C. W. REYNOLDS, JR.

FLUE STOP.

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WITNESSES:

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FLUE-STOP.

No. 849,640.

Specification of Letters Patent.

Patented April 9, 1907.

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To all whom it may concern:

Be it known that I, CHAUNCEY W. REYNOLDS, Jr., a citizen of the United States, residing at Colorado City, in the county of El Paso and State of Colorado, have invented a new and useful Flue-Stop, of which the following is a specification.

This invention relates to flue-stops, and has for its object to provide a comparatively simple and inexpensive device of this character designed for attachment to a chimney-breast and by means of which a stovepipe may be securely locked within the stovepipe-opening without the employment of wires or similar auxiliary fastening devices.

A further object of the invention is to provide a removable slide or closure adapted to automatically close the stovepipe-opening when the pipe is withdrawn, thereby to prevent the escape of dust and soot from the flue.

A further object is to form the supporting-plate with a collar or thimble for the reception of the stovepipe, and, further, to form the plate with a plurality of transverse mortar-receiving flanges to assist in retaining the plate in position on the chimney-breast.

A still further object of the invention is to generally improve this class of devices, so as to increase their utility, durability, and efficiency, as well as to reduce the cost of manufacture.

With these and other objects in view the invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, and illustrated in the accompanying drawings, it being understood that various changes in form, proportions, and minor details of construction may be resorted to within the scope of the appended claims.

In the accompanying drawings, forming a part of this specification, Figure 1 is a longitudinal sectional view of a flue-stop constructed in accordance with my invention. Fig. 2 is a front elevation of the same. Fig. 3 is a transverse sectional view taken on the line 3 3 of Fig. 2. Fig. 4 is a longitudinal sectional view illustrating a modified form of the invention.

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

The improved device is principally de-

signed for attachment to a chimney-breast 55 to assist in retaining a stovepipe in position on the latter and, by way of illustration, is shown applied to a chimney-breast 5, having the usual transverse opening 6 formed therein for the reception of a stovepipe. The device consists of a substantially rectangular body portion 7, preferably formed of a single sheet of metal the opposite longitudinal edges of which are bent inwardly to form parallel guide-flanges 8, the opposite ends of the plate being bent to form similar flanges 9. One end of the plate 7 is provided with a circular opening for the reception of the stovepipe 9', the inner end of which is formed with a segmental slot or recess 10. Slidably mounted between the parallel flanges 8 is a slide or closure 11, adapted to engage the walls of the slot 10 and lock the pipe within the opening, said slide being provided with a laterally-extending pin or finger-piece 12, by means of which the closure may be conveniently moved to operative and inoperative position, there being a vertical slot 13 formed in the plate 7 and communicating with the pipe-receiving opening for the reception of the pin 12 when the slide is in elevated or inoperative position.

Extending inwardly from the rear face of the plate 7 is a collar or thimble 14, provided with laterally-extending lugs 15, which pass through suitable slots or openings 16, formed in the plate 7, and are bent laterally in opposite directions, as best shown in Fig. 2 of the drawings. The thimble 14 is provided with a segmental slot 17 to permit the passage of the slide or closure 11, so that when the pipe 9' is withdrawn from the opening in the chimney-breast the slide 11 will drop by gravity to closed position, and thus prevent the escape of soot and dust from the chimney-flue. The walls of the pipe-receiving opening are preferably expanded to form a laterally-extending flange 18, adapted to form a support for the stovepipe 9'. Secured to the face of the plate 7 and disposed in spaced relation are a plurality of transverse angle-plates 19, adapted to be embedded in the plaster 20 and anchor the plate on the chimney-breast.

In operation when it is desired to insert the stovepipe within the opening in the chimney-breast the slide or closure is moved to elevated or inoperative position by means of the handle 12, after which the stovepipe is

inserted within the thimble and forced inwardly until the slot 10 registers with the slide, after which the latter is forced downwardly until the free end of the slide enters said slot, thus effectually locking the pipe within the stovepipe-opening, as will be readily understood. In order to remove the pipe, it is merely necessary to elevate the slide until the adjacent end thereof clears the top of the stovepipe, when the latter may be readily withdrawn. When the pipe is withdrawn, the slide will be moved by gravity to lowered position, thus closing the pipe-receiving opening and preventing the escape of dust or soot from the flue.

Attention is called to the fact that the upper flange 9 of the plate or body portion forms a stop to limit the upward movement of the slide or closure 11, while the lower end of the slide is reduced, as indicated by dotted lines at 20' in Fig. 2 of the drawings, so as to permit the reduced end of the slide to enter the thimble 14.

In Fig. 4 of the drawings there is illustrated a modified form of the invention, in which the thimble 14 is dispensed with and the plate or body portion 7' formed with laterally-extending anchoring-strips 21, adapted to be embedded in the mortar or cement between the bricks of the chimney-breast, thereby to assist in preventing accidental displacement of said plate.

The flue-stops may be made in different sizes and shapes and may be placed in position when the chimney-breast is built or subsequently.

From the foregoing description it will be seen that there is provided an extremely simple, inexpensive, and efficient device admirably adapted for the attainment of the ends in view.

Having thus described the invention, what is claimed is—

1. A device of the class described comprising a plate having an opening formed therein for the reception of a stovepipe, a slide adapted to close the opening when the pipe is withdrawn, and anchoring-flanges secured to the plate and extending transversely of the same.

2. A device of the class described comprising a plate having an opening formed therein for the reception of a stovepipe and provided with longitudinal guides, a closure slidably mounted for vertical movement between the guides and adapted to close the opening when the pipe is withdrawn and spaced angle-irons secured to the plate and provided with lateral anchoring - flanges extending transversely across the face of the plate.

3. A device of the class described comprising a plate having an opening formed therein for the reception of a stovepipe, a thimble extending laterally from one side of the plate and provided with a segmental slot, a clo-

sure movable through the slot in the thimble and adapted to engage the stovepipe for locking the latter within the opening, and spaced angle-bars secured to the face of the plate and forming anchoring-flanges, said closure serving to close the opening when the pipe is withdrawn.

4. A device of the class described comprising a plate having an opening formed therein and provided with spaced transversely-disposed angle-bars secured to the face of the plate and forming anchoring-flanges, and a vertically-movable slide mounted on the plate and adapted to form a closure for the opening when the pipe is withdrawn.

5. A device of the class described comprising a substantially rectangular plate provided with an opening for the reception of a stovepipe and having its opposite longitudinal edges bent rearwardly to form parallel guides, a slide mounted for vertical movement between the guides and adapted to engage the stovepipe for locking the latter within the opening, said slide being movable by gravity to close the opening when the stovepipe is withdrawn and spaced angle-bars secured to the face of the plate above the plate-receiving opening and forming laterally-extending anchoring-flanges.

6. A device of the class described comprising a plate having an opening formed therein the walls of which are expanded laterally to form a support for the stovepipe, a slide mounted for vertical movement on the plate and adapted to engage the stovepipe for locking the latter within the opening, said slide being movable by gravity to close the opening when the pipe is withdrawn, and anchoring-flanges extending transversely across the face of the plate.

7. A device of the class described comprising a plate having an opening formed therein and provided with spaced parallel guides, a thimble provided with spaced lugs the terminals of which pass through openings in the plate and are bent laterally into engagement with the adjacent face of said plate, there being a segmental slot formed in the thimble, a slide mounted for vertical movement on the plate and movable through the slot in the thimble for engagement with the stovepipe for locking the latter within the opening, said slide being movable by gravity to close the opening when the stovepipe is withdrawn and anchoring-flanges secured to and extending transversely across the face of said plate.

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

CHAUNCEY W. REYNOLDS, JR.

Witnesses:

CHAS. M. LEMLEY,
G. E. DANIELS.