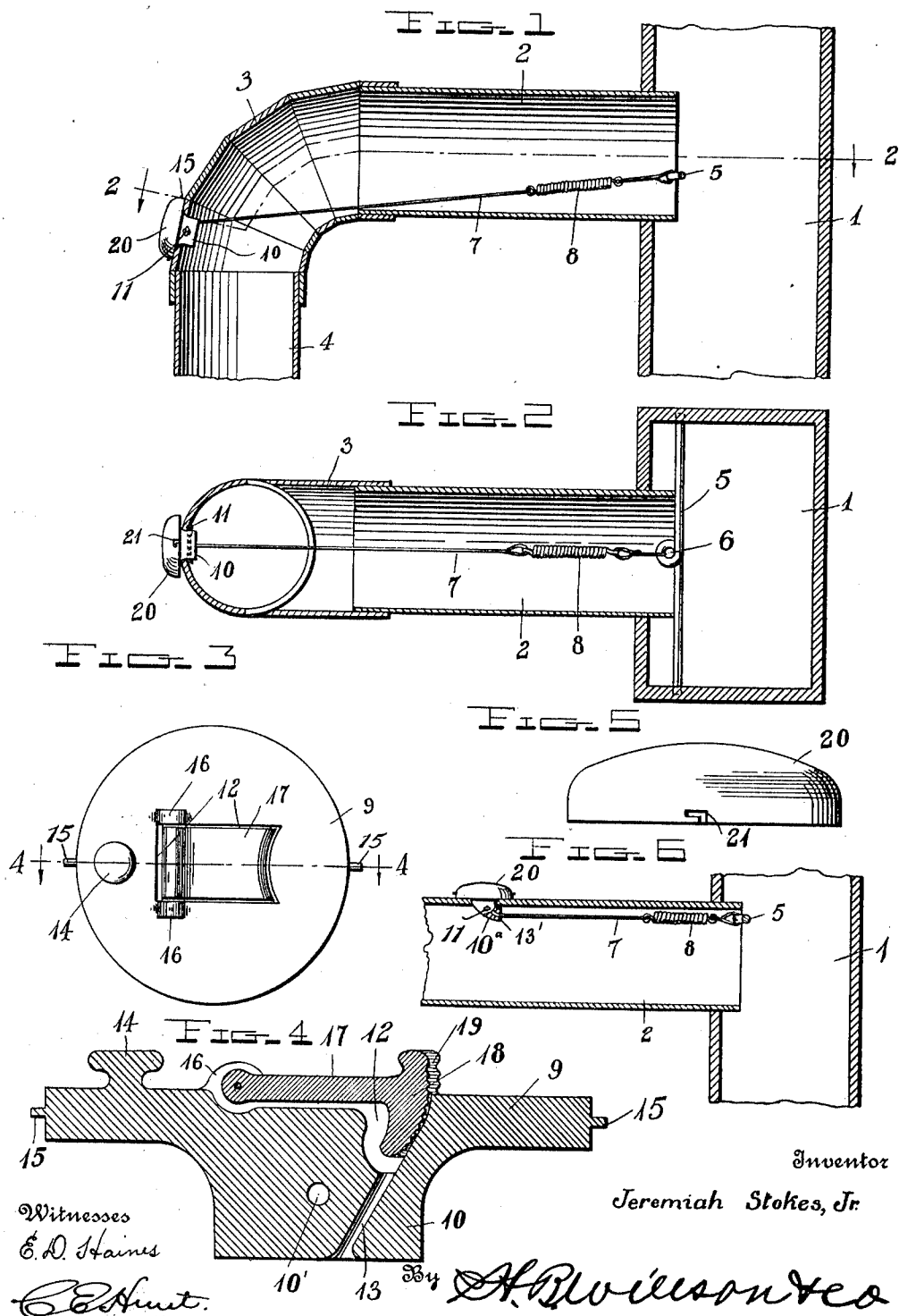


J. STOKES, JR.
STOVEPIPE FASTENER.
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JEREMIAH STOKES, JR., OF SALT LAKE CITY, UTAH.

STOVEPIPE-FASTENER.

1,061,419.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JEREMIAH STOKES, Jr., a citizen of the United States, residing at Salt Lake City, in the county of Salt Lake and State of Utah, have invented certain new and useful Improvements in Stovepipe-Fasteners; and I do 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.

This invention relates to improvements in stove pipe fasteners.

One object of the invention is to provide a stove pipe fastener having an improved means for adjustably securing the end of a fastening wire to the pipe.

Another object is to provide a fastening device of this character which may be readily applied to a stove pipe and chimney flue for holding the end of the pipe in engagement with the flue and which may be applied to an elbow or to a straight pipe.

With these and other objects in view, the invention consists of certain novel features of construction, and the combination and arrangement of parts as will be more fully described and claimed.

In the accompanying drawings; Figure 1 is a vertical sectional view through a portion of a chimney flue and stove pipe and elbow showing the application of the invention thereto; Fig. 2 is a horizontal sectional view taken on the line 2—2 of Fig. 1; Fig. 3 is an outer side view of the wire holding member of the fastener; Fig. 4 is a transverse sectional view thereof taken on the line 4—4 of Fig. 3; Fig. 5 is a side view of the cap for covering the wire holding mechanism; Fig. 6 is a vertical sectional view of a portion of a flue and stove pipe showing the application of the invention to a straight section of pipe.

Referring more particularly to the drawings, 1 denotes a chimney flue and 2 denotes the horizontal upper section of the stove pipe which engages the flue and with the outer end of which is engaged an elbow 3 which connects the main or vertical portion 4 of the pipe to the horizontal portion 2. Arranged transversely across the flue near the side of the same in which is formed the stove pipe hole is a wire anchoring bar 5 which is engaged with the flue as shown, or in any other suitable manner. In the

bar 5 midway between its ends is an eye 6 to which is connected the inner end of a pipe holding wire 7 the opposite or outer end of which is adjustably secured to a wire holding mechanism hereinafter described. At a suitable position in the wire 7 is arranged a coil spring 8 which is adapted to yieldingly hold the pipe 2 in the stove pipe hole of the flue and the inner end of the pipe in engagement with the anchoring bar 5.

My improved wire holding mechanism comprises a plate 9 which may be of any suitable shape and which is here shown as being circular and as having on its inner side an inwardly extending lug 10 in which is formed a transverse passage 10' adapted to receive a fastening pin 11 whereby the plate is secured in position on the stove pipe as will be hereinafter more fully described. In the plate 9 and opening through the outer side thereof is a recess 12, the inner end of which communicates with a passage 13 extending through the lug 10 of the plate as clearly shown in Fig. 4 of the drawings. On the outer side of the plate adjacent to one edge thereof is formed a wire fastening knob or cleat 14 and on the edges of the plate preferably at diametrically opposite points are arranged short studs 15 the purpose of which will be hereinafter described.

Formed on and projecting outwardly from the outer side of the plate 9 at one end of the recess 12 are parallel lugs 16 to which is pivotally connected one end of a wire clamping member 17 having on its free end a cam head 18 the outer edge of which is milled or serrated as at 19 and is adapted to co-act with the curved surface of the adjacent end of the recess 12 at the outer end of the passage 13, whereby when the end of the wire 7 is passed through said passage 13 and between the serrated surface of the cam and the adjacent surface of the end of the recess 12, said cam head will tightly clamp the wire in engagement with the end of the recess thereby securely and adjustably fastening the wire. In thus fastening the wire, it will be understood that the resistance or action of the spring 8 will tend to draw the cam 18 inwardly against the end of the recess 12 and that the more the spring is stretched by the wire the greater will be the inward pull on the cam thus causing the latter to more tightly grip and hold the

outer end of the wire. The end of the wire after being adjusted and gripped by the clamp may be wound on the cleat or knob 14 which will thus provide an additional 5 fastening for the wire and will obviate any possible danger of the wire slipping or becoming loose and thus releasing the end of the stove pipe.

In applying the device to a stove pipe it 10 is simply necessary to punch a hole in the pipe or elbow of sufficient size to receive the lug 10 on the plate 9 and to engage the pin 11 with the pin hole 10' in said lug thereby 15 securely fastening the wire holding mechanism to the pipe. The inner end of the wire 7 is then secured to the bar 5 or other anchoring mechanism in the chimney flue after which the outer end of the wire may be drawn through the passage 13 and between 20 the cam 18 and the co-acting surface of the recess 12 to firmly secure the pipe in position as hereinbefore described. In connection with the wire fastening mechanism I preferably provide a cap or casing 20 which 25 is adapted to be engaged with the outer side of the plate 9 and to cover the wire fastening mechanism therein, said cap having at diametrically opposite points in its sides bayonet slots 21 which are adapted to receive the studs 15 on the edges of the plate, 30 whereby the cap is securely but detachably fastened in place on the plate 9.

In Fig. 6 of the drawings the device is shown as being applied for holding a 35 straight section of pipe in engagement with the flue and when employed in this connection the wire holding mechanism is provided with a slightly different shape or form of pipe engaging lug 10^a and a slightly different arrangement of wire receiving passage 13'. In all other respects the construction and arrangement of the fastener shown 40 in Fig. 6 is precisely the same as that previously described and shown in the other 45 figures of the drawings and a further de-

scription of this form of the device is not thought to be necessary.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation. 50

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention as defined and claimed. 55

Having thus particularly described my invention, what I claim is:

A stove pipe fastener comprising an anchoring bar adapted to be secured in a flue 60 and having wire attaching means, a fastening wire secured at its one end to said anchoring bar, a coiled spring arranged in said wire, a wire holding device comprising 65 a plate having on its inner side a pipe engaging lug provided with a transverse pin hole and a longitudinal passage communicating at its outer end with a recess formed in said plate, a wire clamping cam pivoted 70 to said plate and adapted to co-act with one end of said recess to grip the end of the wire when drawn through said passage and recess, whereby the wire is adjustably fastened 75 against the resistance of said spring, a cleat on said plate to receive the end of the wire, studs formed on the edge of the plate, and a cap adapted to be engaged with said plate over the wire fastening mechanism therein and having in its edges bayonet slots adapted 80 to engage said studs whereby the cap is detachably secured to the plate.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

JEREMIAH STOKES, JR.

Witnesses:

ELIZABETH BOYES,
ROBERT L. JUDD.