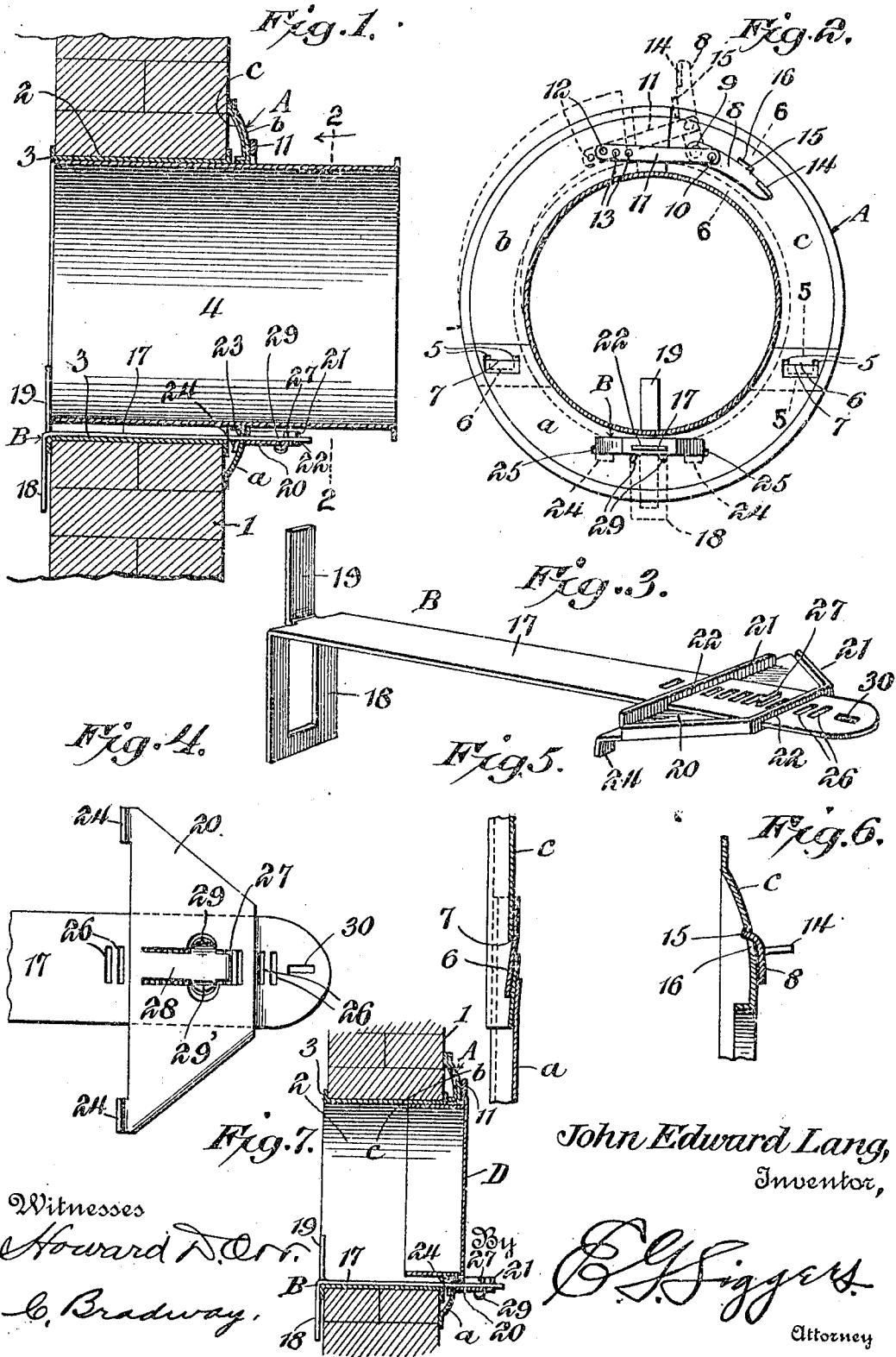


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STOVEPIPE OR FLUE CAP FASTENER.
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JOHN EDWARD LANG, OF EVANSVILLE, INDIANA.

STOVEPIPE OR FLUE-CAP FASTENER.

954,308.

Specification of Letters Patent.

Patented Apr. 5, 1910.

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To all whom it may concern:

Be it known that I, JOHN EDWARD LANG, a citizen of the United States, residing at Evansville, in the county of Vanderburg and State of Indiana, have invented a new and useful Stovepipe or Flue-Cap Fastener, of which the following is a specification.

This invention relates to a device for holding a stove pipe or flue cap in proper position with relation to a chimney, and relates more particularly to a stove pipe fastening of that type provided with a collar adapted to be clamped around the pipe at the point where the same enters the chimney, and which is provided with means cooperating with the collar for preventing the pipe from moving out of the flue hole of the chimney.

The invention has for one of its objects to improve and simplify the construction and operation of devices of this character so as to be comparatively simple and inexpensive to manufacture, reliable and efficient in use, and easily and quickly applied.

Another object of the invention is the provision of an improved clamping collar to engage the stove pipe, in combination with a device adjustably connected with the collar and engaging the chimney and stove pipe for facilitating the proper positioning of the latter.

With these objects in view and others, as will appear as the description proceeds, the invention comprises the various novel features of construction and arrangement of parts which will be more fully described hereinafter and set forth with particularity in the claims appended hereto.

In the accompanying drawing, which illustrates one embodiment of the invention, Figure 1 is a vertical section of a portion of a chimney with the improved stove pipe fastener applied. Fig. 2 is a transverse section on line 2—2, Fig. 1. Fig. 3 is a perspective view of the device cooperating with the collar for holding the stove pipe in position. Fig. 4 is a bottom plan view of the bracket on the collar to which the pipe-holding device is connected. Figs. 5 and 6 are enlarged sectional views on lines 5—5 and 6—6, Fig. 2, respectively. Fig. 7 is a detail sectional view, on a reduced scale, showing the device as a flue cap holder.

Similar reference characters are employed to designate corresponding parts throughout the views.

Referring to the drawing, 1 designates

one wall of a chimney which has a flue opening 2 provided with a thimble 3 of any approved construction, and into this thimble extends the discharge end of the stove pipe 4. The stove pipe is held in place by a clamping collar designated generally by A and a holding or stop device designated generally by B, which cooperate to prevent the stove pipe from moving inwardly or outwardly. The collar A is composed, in the present instance, of segmental sections *a*, *b* and *c*, so connected as to permit the collar to be expanded or contracted. For this purpose, the intermediate section *a* is provided with openings 5 adjacent its extremities, and into each opening projects a rectangular tongue 6. The end sections *b* and *c*, which are arranged with their ends in overlapping relation to the section *a*, are each provided with a slot 7 into which the tongue 6 of the adjacent extremity of the member *a* engages to thereby connect the sections together in interlocking relation, while, at the same time, permitting the sections *b* and *c* to have a slight swinging movement in a plane transverse to the stove pipe on the tongues 6 as centers. The other ends of the sections *b* and *c* overlap each other and are fastened together by a clamping device which consists of a lever 8 pivoted at 9 on the section *c* and pivotally connected at 10 with a link 11 which extends across the joint between the two sections and is engaged with a pivot stud 12 on the section *b*. The link 11 has spaced apertures 13 for affording different points of engagement between the link and the section *b* of the collar for adapting the latter for stove pipes of different diameters. The latch 8 has an outwardly-extending lug 14 that constitutes a finger piece so that it can be conveniently manipulated, and projecting laterally from the latch is a tooth 15 adapted to engage in an opening 16 in the section *c* of the collar, as shown in Figs. 2 and 6, for holding the latch in locking position.

The device B comprises a metal strip 17 having one extremity bent laterally into an arm 18 from which is struck out an arm 19 which is bent reversely to project from the opposite side of the arm. The strip 17 projects through the hole in the chimney, and the arm 18 forms a stop for engaging the inner surface of the chimney, while the arm 19 projects across the chimney opening to form a stop against which the inner end

of the stove pipe engages. The strip 17 is adjustably connected with the clamping collar A so as to accommodate the stove pipe fastener to chimney walls of different thicknesses. On the collar is a horizontally-disposed outstanding bracket 20 constructed of sheet metal and formed with marginal flanges 21 having slots 22 through which the forward extremity of the strip 17 extends, there being a slot 23 in the collar alining with the slots 22 for accommodating the strip 17. The bracket 20 has base lugs 24 that extend through apertures 25 in the section *a* of the clamping collar and bend backwardly against the inner surface of the said section for holding the bracket in place. The strip 17 is provided with a plurality of spaced slots or notches 26 into which engages a lip or projection 27 of a spring latch 28 struck out from the bracket 20. This latch has oppositely-disposed outwardly-bent lugs 29 which, together, form a finger piece for enabling the latch to be released, the latch being held in locking position by its own resiliency.

In applying the stove pipe fastening to a chimney, the device B is first placed in position in the flue hole at the top, side or bottom, as desired, and the collar then supported on the device with its parts in open position so that the stove pipe can be inserted through the collar. The forwardly-projecting end of the strip 17 is gripped by one hand and a forward pressure applied, while the bracket of the collar is gripped in the other hand and pushed backwardly toward the chimney to thereby clamp the collar against the front surface of the chimney and the arm 18 against the inner surface. After the discharge end of the stove pipe is placed through the collar into the chimney opening with its edge engaging the arm or stop 19, the collar is clamped to the stove pipe by throwing the lever from the dotted line position of Fig. 2 to the full line position, and the parts will thus be securely held in place so that the stove pipe is prevented from moving either inwardly or outwardly. In the forward extremity of the member 17, an opening 30 is provided for the purpose of receiving a wire to hold the elbow of a stove pipe in the upper horizontal section thereof so as to prevent the elbow from becoming disconnected. The device B can be positioned either under or over the horizontal section of the stove pipe and the fastening wire run along such section and fastened to the elbow in any desired manner.

In Fig. 7, the fastening device is shown as a flue cap holder. The flue cap D is of any approved construction and is inserted in the flue opening through the collar A,

which is fastened to the flue cap D in the same manner as in clamping a stove pipe.

From the foregoing description, taken in connection with the accompanying drawing, the advantages of the construction and of the method of operation will be readily apparent to those skilled in the art to which the invention appertains, and while I have described the principle of operation of the invention, together with the device which I now consider to be the best embodiment thereof, I desire to have it understood that the device shown is merely illustrative, and that such changes may be made when desired as are within the scope of the claims appended hereto.

Having thus described the invention, what I claim as new, and desire to secure by Letters Patent, is:—

1. In a stove pipe or flue cap fastener, an expansible and contractible collar composed of segmental intermediate and end sections, lap joints between the intermediate and end sections, each joint consisting of a slot in one section and a tongue in the adjacent section offset laterally to engage in the slot of the adjacent section to form a removable and pivotal connection between the sections, and means for clamping the end sections together.

2. In a stove pipe or flue cap fastener, a collar composed of a segmental intermediate section and segmental end section, said intermediate section having in its ends transversely-extending slots, tongues on the end sections set inwardly from the extremities to engage in the slots of the intermediate section to form lap joints, the tongues being loosely engaged in the slots to permit the end sections to have limited pivotal movement, and means connecting the end sections together for clamping the collar in place.

3. In a stove pipe or flue cap fastener, an expansible and contractible collar having a slot for receiving a stove pipe stop and provided with additional slots adjacent the first-mentioned slot, a bracket arranged in outstanding relation on the collar and having base lugs fastened in the last-mentioned slots and provided with slots registering with the first-mentioned slot for receiving the stove pipe stop, and means on the bracket for engaging the stop to hold the same in different positions.

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

JOHN EDWARD LANG.

Witnesses:

ANDREW G. STENN,
A. S. GRESON.