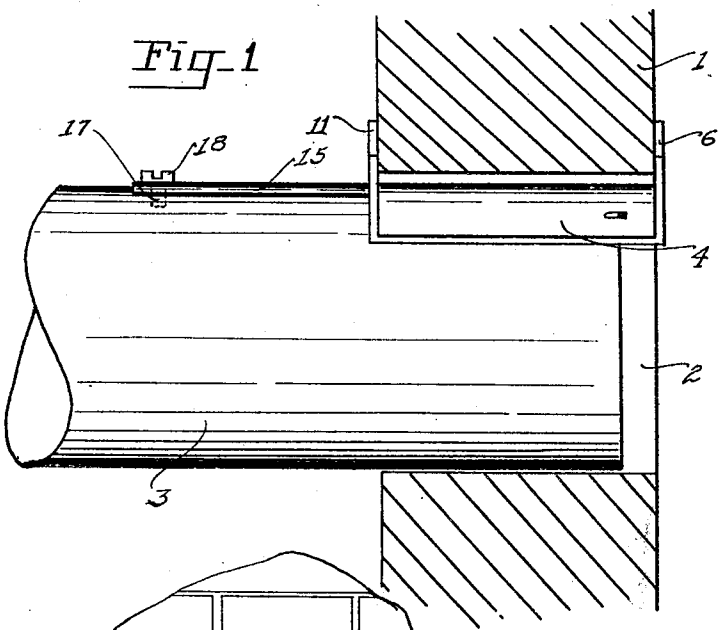
May 5, 1931. R. B. CROSS 1,803,894

STOVEPIPE ANCHOR AND LOCK

Filed March 13, 1929

Fig. 1



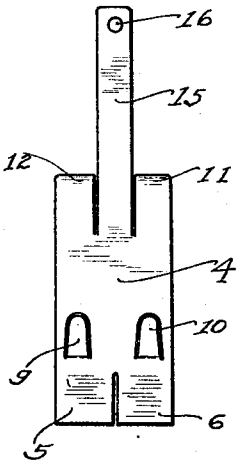




Fig. 4

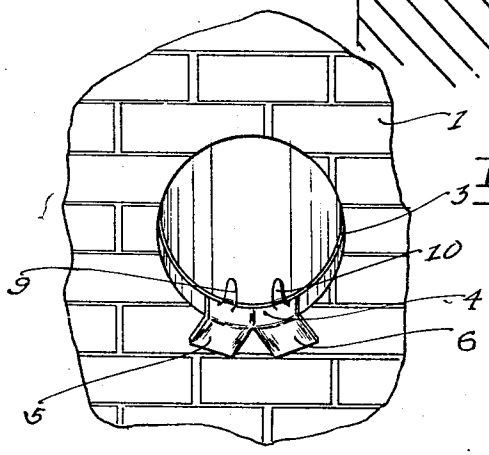



Fig. 3

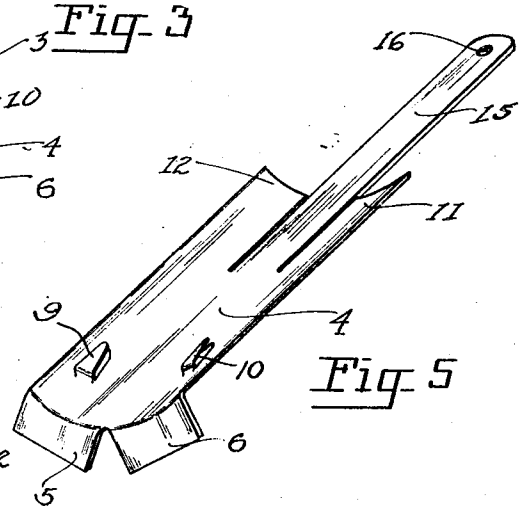



Fig. 5

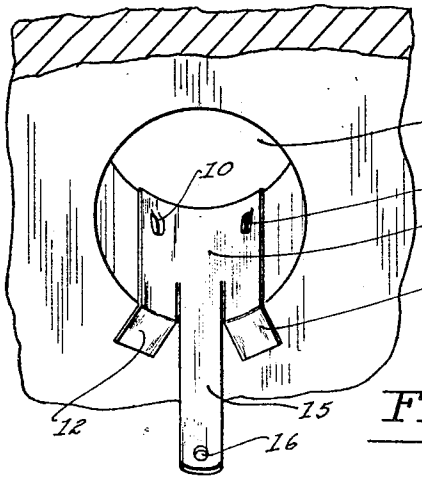



Fig. 2

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# UNITED STATES PATENT OFFICE

RALEIGH B. CROSS, OF OREGON CITY, OREGON

## STOVEPIPE ANCHOR AND LOCK

Application filed March 13, 1929. Serial No. 346,606.

My device relates to a stove pipe anchor and lock for stove pipes, and has for its primary object the location of the inner, or discharge end of the stove pipe, and the maintaining of the same in precise position.

The invention consists of a single piece of metal, substantially of the thickness of the stove pipe and has disposed upon its inner end a pair of ears that are downwardly inclined to form a locator and positioner of the device relative to the inner wall of the chimney or flue to which the stove pipe is to be attached. A pair of ears are also formed tributary to the outer edge of the device that are adapted for being bent downward to engage the outer wall of the chimney or flue. When so bent the device is maintained fixedly positioned relative to the flue, or chimney wall. Stop lugs are upwardly disposed on the inner surface of the device which position the stove pipe relative to the device and maintain the same fixed relative to the device. Means are provided at the outer end of the device whereby fastenings may be secured thereto, for maintaining the assembled smoke pipe in position and alignment.

One of the primary objects of my device consists in providing simple means for preventing the discharge end of the smoke pipe from contacting with the vertical wall of the flue or chimney.

A further object of my device resides in simple means and in a one piece device for fixedly locating the device relative to the stove pipe entrance to the chimney wall.

A further object of my device consists in providing a stove pipe anchor and lock that is made of a single piece of material and so constructed that the same may be nested for shipment to occupy a minimum of shipping space.

A further object consists in a simplified and economical construction that has a wide range of application and that is adapted for application to flues and pipes of different sizes, diameters and wall thicknesses, in a single device.

With these and incidental objects in view, the invention consists in certain novel features of construction and combination of parts, the essential elements of which are set forth in the appended claim, and a preferred form of embodiment of which is hereinafter shown with reference to the drawings which accompany and form a part of this specification.

In the drawings:

Fig. 1 is a sectional side view of a chimney wall showing the same in section and also illustrating a section of stove pipe in position with my new and improved device in place.

Fig. 2 is a perspective end view of my new and improved device in place and position within the stove pipe entrance to a chimney.

Fig. 3 is a perspective, end view of my new and improved device in place and position within the inside of a chimney.

Fig. 4 is a top, plan view of the device illustrated as a blank form from sheet stock before the same has been bent to curvature.

Fig. 5 is a perspective, end view of the device.

Like reference characters refer to like parts throughout the several views.

1 is a side wall of a chimney, 2 is the smoke pipe entrance disposed through the side wall 1, and 3 is the discharge joint of a stove pipe.

My device is made from sheet material and is primarily intended to be punched or sheared from sheet metal. The device when blanked out looks as illustrated in Fig. 4 consisting of a body element 4 having ears 5 and 6 disposed upon the inner end. The next step in making the device, after it has been blanked or sheared from the sheet, is to form it for curvature, the arch of the curve being substantially that of the diameter of the pipe to be stabilized thereby. The ears 5 and 6 are then bent substantially at right angles to the body element, as illustrated at 7 and 8 in Fig. 5. Stop lugs 9 and 10 are then formed and extend upwardly from the body element 4 and the main portion of the stop lugs 9 and 10 are disposed in spaced relationship with the body element 4 in order that the stove pipe may extend therebetween.

When the device is placed within the wall, as illustrated in Fig. 1, the projections 11 and 12 are bent upwardly, as illustrated in Fig. 1, with the ears 5 and 6 engaging the inner

portion of the wall as shown at 7 and 8 so that the device is then held fixedly positioned relative to the side wall 1. A tongue 15 extends beyond the terminus of the end portions of the body element having a screw thread hole 16 adjacent its outer end. The discharge joint 3 of the stove pipe has a screw thread hole 17 corresponding to the hole in the tongue of the strip. A screw bolt 18 is threadably disposed within the threaded holes in the pipe and tongue.

While the form of device herein shown and described is admirably adapted to fulfill the objects primarily stated, it is to be understood that it is not intended to confine the invention to the one form of embodiment herein shown and described, as it is susceptible of embodiment in various forms, all coming within the scope of the claim which follows.

What I claim is:

A device of the class described, comprising a metallic strip having a transverse curvature adapted to fit against a stove pipe, and having ears formed at the inner end of the strip adapted to engage the inner wall of a chimney, and projections at the outer end adapted to engage the outer wall of a chimney, stop lugs on the body of the strip adjacent the ears at the inner end, and adapted to engage the end of a stove pipe, a tongue extending from the outer end of the strip and having a screw threaded hole adjacent its outer end, a stove pipe section having a screw threaded hole corresponding to the hole in the tongue of the strip and a screw-bolt engaging said threaded holes and securing the tongue to the stove-pipe section.

RALEIGH B. CROSS.