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H. PATTERSON

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STOVE AND FURNACE PIPE ELBOW

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Fig. 1.

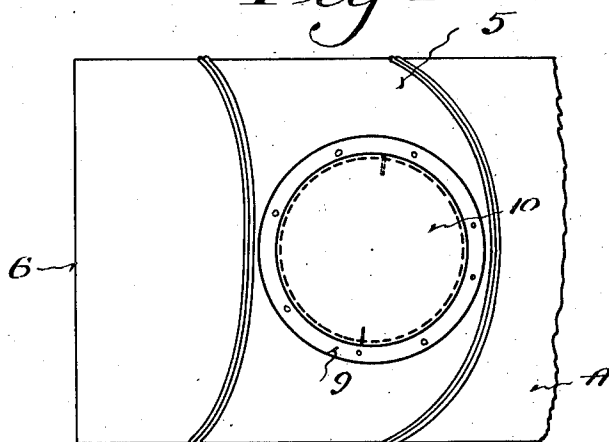
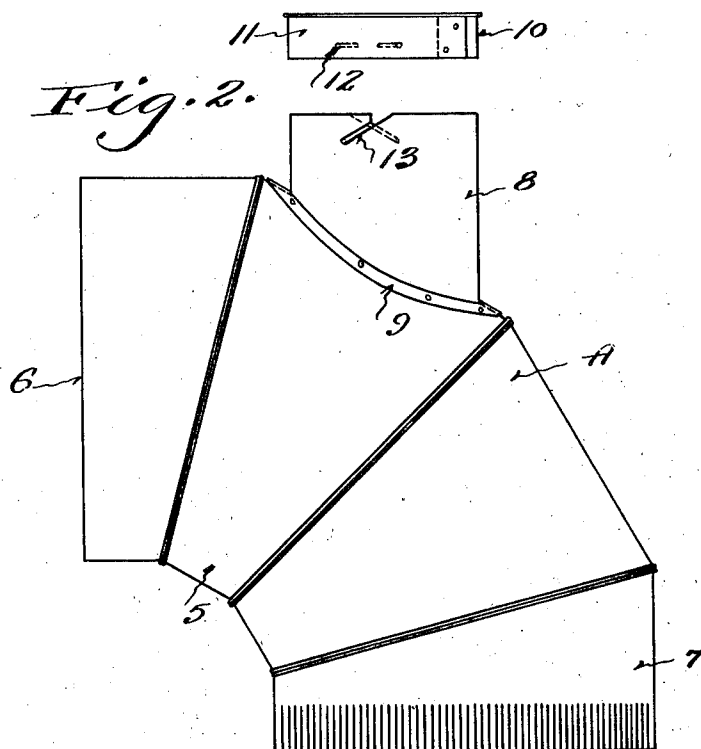


Fig. 2.



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STOVE AND FURNACE PIPE ELBOW

Hutchinson Patterson, Milwaukee, Wis.

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1 Claim. (Cl. 285-213)

This invention appertains to stove and furnace smoke-pipes, and more particularly to an improved elbow therefor.

One of the primary objects of my invention is to provide a stove and furnace pipe elbow so constructed that the connecting pipes can be easily and quickly cleaned without necessitating the taking down of the pipes, so that the dirt and muss usually associated with pipe cleaning is eliminated.

Another salient object of my invention is the provision of an elbow having a sleeve incorporated therewith at the connection of the horizontal and vertical branches thereof, normally closed by a quickly removable cover, the construction being such that easy access of cleaning devices, either of the hand or vacuum type, into the pipes is afforded.

A further object of my invention is the provision of means for connecting the collar or sleeve with the elbow, whereby a strong but economical structure will be had, and whereby the sleeve or collar will form a convenient means for detachably supporting the cover.

With these and other objects in view, the invention consists in the novel construction, arrangement, and formation of parts, as will be hereinafter more specifically described, claimed, and illustrated in the accompanying drawing, in which drawing:

Figure 1 is a fragmentary top plan view of a stove or furnace pipe elbow constructed in accordance with my invention.

Figure 2 is a side elevation of my improved elbow, the cover being shown raised from the sleeve or collar.

Referring to the drawing in detail, wherein similar reference characters designate corresponding parts throughout the several views, the letter A generally indicates a stove or furnace pipe elbow constructed in accordance with my invention, and the same includes the elbow body 5 having the horizontal leg or branch 6, and the vertical leg or branch 7. This part of the elbow is of the usual or any preferred character, and I incorporate with this part, a sleeve or collar 8.

The body 5 of the elbow, intermediate the

branches 6 and 7, is provided with an enlarged opening, and the lower end of the collar 8 is provided with an annular retaining flange 9, which is adapted to be riveted or otherwise secured to the body 5 around the opening. The sleeve or elbow 8 is preferably disposed in a vertical plane and extends a considerable distance above the elbow.

Normally, the sleeve or collar 8 is closed by a removable cover 10, which is adapted to fit over the said sleeve or collar. The skirt 11 of the cover carries inwardly directed pins 12, which are adapted to fit in oppositely directed inclined slots 13 formed in the upper edge of the sleeve or collar. Obviously, by giving the cover 10 a twisting motion, the cover can be brought into its closed or released position, depending upon which way the cover is rotated.

The diameter of the sleeve or collar 8 is variable in accordance with the size of the elbow to which it is attached, and when the cover 10 is removed, easy access is had into the pipe for the desired type of cleaning devices.

I am aware that prior to my invention numerous types of furnace and stove-pipe elbows have been manufactured, and that attempts have been made to provide an elbow with a clean-out opening. However, as far as I am aware, I am the first to use a sheet metal sleeve or collar around an opening in the elbow, and to detachably mount a closure cap on the collar or sleeve.

Changes in details may be made without departing from the spirit or the scope of the invention, but what I claim as new is:

As a new article of manufacture, a clean-out elbow for stoves and furnace pipes comprising a pair of angularly related branches and a connecting body, said body having an enlarged opening in the upper face thereof between said branches, an elongated sheet metal sleeve having an annular flange on its lower end disposed about said opening and fitted snugly against said body, said sleeve rising above the body in a vertical plane, means rigidly securing the flange to the body, and a removable covering having a depending collar normally closing the upper end of the sleeve.

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