(No Model.)

C. P. ELLIOTT.

FASTENING FOR STOVE PIPES.

No. 414,200. Patented Nov. 5, 1889.

Fig. 1.

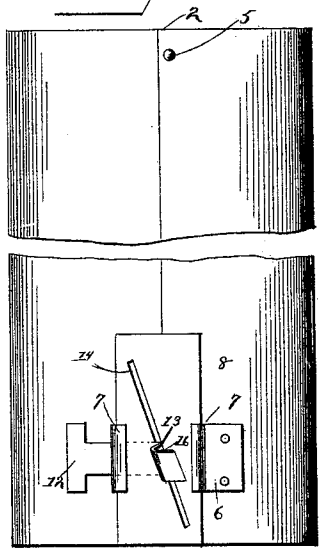


Fig. 2.

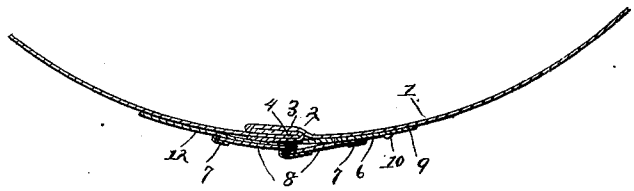
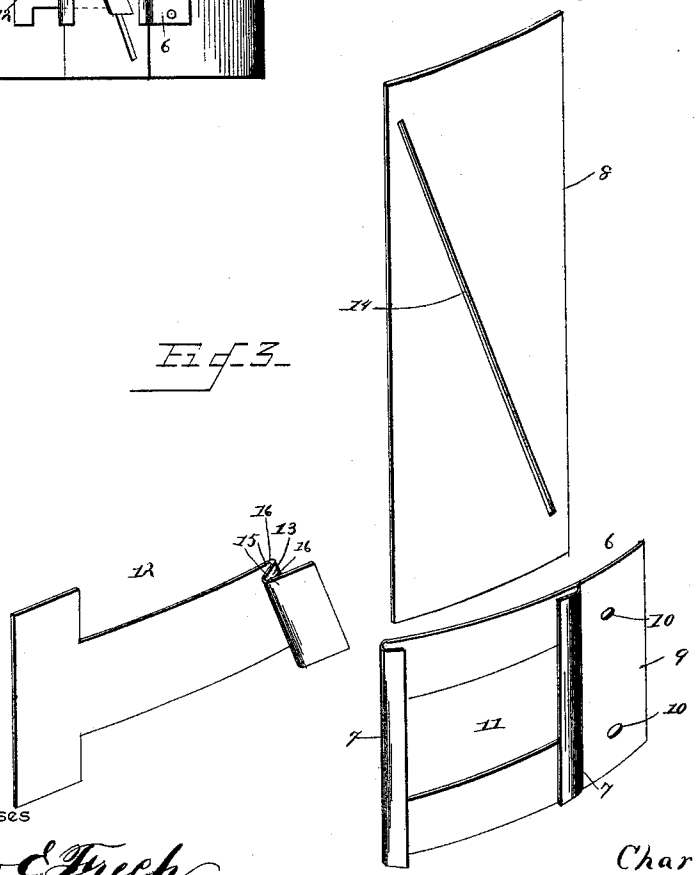


Fig. 3.



Witnesses

Geo. C. Frech.

Wm. Bagger.

Inventor

Charles P. Elliott,

By his Attorneys,

C. A. Snow & Co.

N. PETERS. Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

CHARLES PITTS ELLIOTT, OF WEST LIBERTY, IOWA.

FASTENING FOR STOVE-PIPES.

SPECIFICATION forming part of Letters Patent No. 414,200, dated November 5, 1889.

Application filed July 11, 1889. Serial No. 317,129. (No model.)

To all whom it may concern:

Be it known that I, CHARLES PITTS ELLIOTT, a citizen of the United States, residing at West Liberty, in the county of Muscatine and State of Iowa, have invented a new and useful Fastening for Stove-Pipes, of which the following is a specification.

This invention relates to devices for connecting the meeting edges of stove-pipes adjustably in order that the stove-pipe to which my invention is applied may be expanded or contracted easily and quickly, so as to enable it to be connected with a section of stove-pipe of unequal diameter.

The invention consists in the improved construction and combination of parts, which will be hereinafter fully described, and particularly pointed out in the claims.

In the drawings hereto annexed, Figure 1 is a front elevation of a section of stove-pipe equipped with my improvement. Fig. 2 is a sectional view of the same, taken on the line *x x* in Fig. 1. Fig. 3 is a perspective view showing the parts comprising my invention detached from each other.

Like numerals of reference indicate like parts in the several figures.

I designates a joint of stove-pipe to which my invention is applied. Said stove-pipe is constructed in the usual manner of a plate of sheet metal; but its meeting edges, instead of being seamed together, are constructed as will be seen in Fig. 2 of the drawings, by reference to which it will appear that one of the meeting edges 2 is provided with a double fold 3, forming a groove 4 to receive the opposite meeting edge, the depth of said groove being at least equal to the limit within which the joint or section of pipe is desired to be expansible and contractible. The meeting edges of the pipe are connected at one end of the latter by means of a rivet 5. At or near the other end they are connected by the fastening device, which I shall now proceed to describe.

6 designates a clasp constructed, preferably, of cast malleable iron, although sheet metal or other suitable material may be employed in its construction. The said clasp is provided on its front side or face with flanges 7 to accommodate a vertical sliding plate 8, and it has a laterally-extending wing 9, which is perforated to receive rivets 10, by means of which it may be secured to one of the meeting edges of the stove-pipe section. The rear side of the plate 6 has a slot 11 to receive an arm 12, secured to and extending from the opposite meeting edge, and having at its outer end a diagonal flange 13, adapted to engage a diagonal slot 14 in the vertically-sliding plate 8. It will be seen that by moving the latter in an upward or downward direction, as may be required in the flanges 7 of the plate or clasp 6, it will engage the flange 13 of arm 12, thus moving the said arm and the meeting edge of the stove-pipe to which it is attached in an outward or inward direction, according to the direction in which the vertically-sliding plate 8 is moved.

It will be seen from the foregoing that the end of the stove-pipe equipped with my improved fastening device may readily be expanded, so as to admit of the insertion into it of an ordinary section of stove-pipe to any desired length, after which the fastening device may be tightened by simply adjusting the plate 8 so as to bind and hold the stove-pipe sections together.

The diagonal flange 13 at the outer end of the arm 12 is preferably provided with a double fold 15, whereby grooves 16 16 are formed, facing in opposite directions and adapted to engage opposite sides of the slot 14 in the vertically-sliding plate 8, with which the said arm 12 will thus be held securely connected.

The advantages of this invention will be readily understood from the foregoing description taken in connection with the drawings hereto annexed. It is simple in construction, easily applied, and effective in operation.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A fastening for the meeting edges of stove-pipes, comprising a plate or clasp having vertical flanges, a plate arranged to slide vertically in said flanges and provided with a diagonal slot, and an arm extending into a slot in the rear side of the plate or clasp and having an inclined flange engaging the diag-

onally-slotted vertically-sliding plate, substantially as set forth.

2. In a fastening for the meeting edges of stove-pipes, the combination of the vertically-flanged plate or clasp having a slot on its rear side, a vertically-sliding diagonally-slotted plate, and an arm having a diagonal doubled fold or flange engaging the opposite sides of the slot in the vertically-sliding diagonally-slotted plate, substantially as set forth.

3. The combination of a stove-pipe having a meeting edge provided with a double fold forming a groove facing and adapted to receive the opposite plain meeting edge, a clasp or plate secured to one of said meeting edges and provided with vertical flanges and with a slot on its rear side, a vertically-sliding diagonally-slotted plate mounted in said flanged clasp, and an arm secured to and extending from the other meeting edge and having a diagonal double fold or flange at its outer end engaging the opposite sides of the slot in the diagonally-slotted vertically-sliding plate, substantially as and for the purpose herein set forth.

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

CHARLES PITTS ELLIOTT.

Witnesses:

H. R. CHILDS,

L. A. CHEW.