April 3, 1928. 1,664,885

W. E. HUENEFELD

STOVEPIPE

Filed March 12, 1927

Fig. 1.

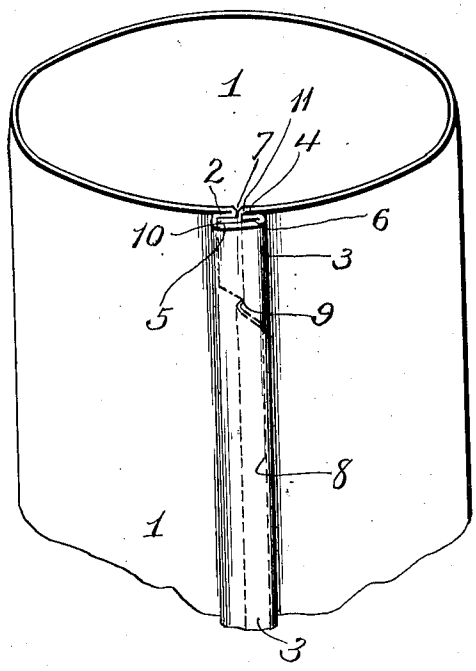


Fig. 2.

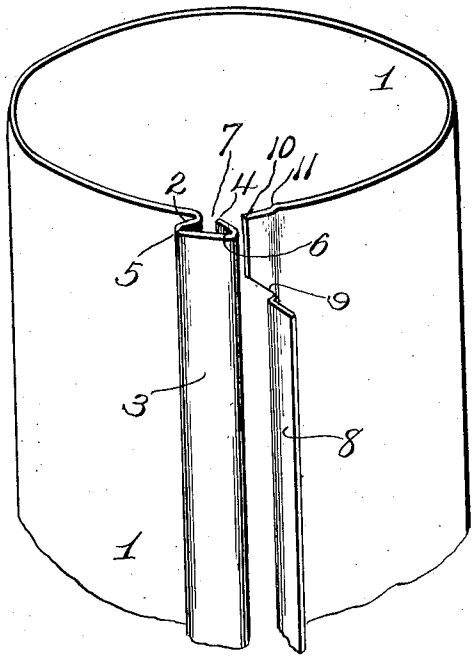


Fig. 3.

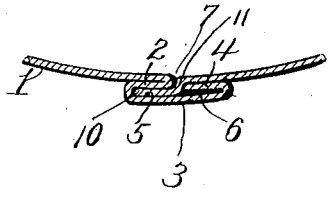
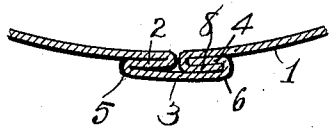


Fig. 4.



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UNITED STATES PATENT OFFICE.

WALTER E. HUENEFELD, OF CINCINNATI, OHIO.

STOVEPIPE.

Application filed March 12, 1927. Serial No. 174,770.

This invention relates to improvements in stovepipes,—one object of the invention being to provide improved means for facilitating the joining of the edges of a sheet forming a pipe section.

A further object is to so connect the edges of a stovepipe section that a concealed lock shall be provided in a seam on the outside of the pipe, such lock serving to resist collapsing force when two pipe sections are fitted together.

A further object is to so construct a stovepipe joint that spreading will be effectually prevented and so that means shall be provided at one end of the pipe section to prevent collapsing or inward displacement of the edges of the pipe relatively to each other, the construction being such that the seam may be closed by hammering without danger of the opening of a portion of the seam while another portion is being hammered.

A further object is to so construct a stovepipe seam that the same may be formed at a minimum cost and so that the same may be readily assembled and secured.

With these and other objects in view, the invention consists in certain novel features of construction and combinations of parts as hereinafter set forth and pointed out in the claims.

In the accompanying drawings;

Figure 1 is a view of a stovepipe section showing an embodiment of my invention;

Figure 2 is a view showing the parts which form the joint, separated, and

Figures 3 and 4 are sectional views.

The pipe section 1 is made of sheet metal bent into substantially cylindrical form as is customary and well known.

One edge portion of the pipe section is bent outwardly and backwardly forming a flange 2, then forwardly as at 3, and then inwardly to form a flange 4, whereby a double fold 5—6 with a hook-shaped edge is formed and separated by a slot or throat 7 between the inner edges of the flanges 2 and 4. The opposite edge portion is bent outwardly backwardly to provide a flange or hook 8 which extends throughout the major portion of the pipe section.

Near one end of the pipe section (preferably the upper or crimped end which is intended to enter the lower end of another pipe section) the edge of the sheet on which the flange or hook 8 is formed, is cut at 9, and above such cut, the metal of the sheet forms a tongue 10.

In joining the edges of the pipe section, the hook or flange 8 on one edge portion is caused to engage the hook flange 4 on the other edge portion of the pipe and made to enter the space formed by the fold 6. The pipe is then so manipulated that the flange 8 will slide relatively to the flange 4, and the tongue 10 will be passed through the slot or throat 7 and slid into the space formed by the fold 5, the free edge of said tongue finding an abutment at the bend of the fold 5 approximately at the juncture of the latter with the part 3, and a slightly shouldered portion 11 of the tongue will pass through the slot or throat 7. A lock is thus formed at one end of the pipe section, and the joint may be closed by hammering without danger of accidental separation of one portion of the joint or seam while another portion is being hammered.

When the parts of the joint or seam shall have been assembled, and the upper end of the section is inserted into the lower end of another pipe section, the abutment of the tongue 10 against the flange 2 will effectually prevent inward movement or collapsing tendency of the end of the pipe section, and the engagement of the parts 8 and 4 will prevent any tendency of the joint or seam and hence the edges of the pipe to spread.

It will be seen that the seam is on the outside of the pipe section where it can be readily hammered without marring the pipe section, and that the interlocking tongue will be concealed, giving the seam a neat and continuous appearance.

Having fully described my invention what I claim as new and desire to secure by Letters-Patent, is:—

1. A pipe section having at one edge a flange extending outwardly, then parallel to the sheet and then inwardly forming a double fold with a hook shaped edge extending from end to end of the section, an outwardly projecting hook flange extending approximately from end to end of the opposite edge of the pipe section and engage-

able with said hook shaped edge, and a tongue projecting from one end portion of the edge having said hook flange and adapted to abut against the double fold portion.

2. A pipe section provided at one edge portion with an outwardly projecting flange, a member projecting from said flange, and a hook flange at the free end of said member, the other edge portion of the pipe section having a hook flange to engage said first-mentioned hook flange and also having a tongue entering under the member on the first-mentioned outwardly projecting flange.

In testimony whereof, I have signed this specification.

WALTER E. HUENEFELD.