No. 710,262. Patented Sept. 30, 1902.

F. L. FILSON.

SHEET METAL PIPE.

(Application filed June 6, 1902.)

(No Model.)

Fig. 1.

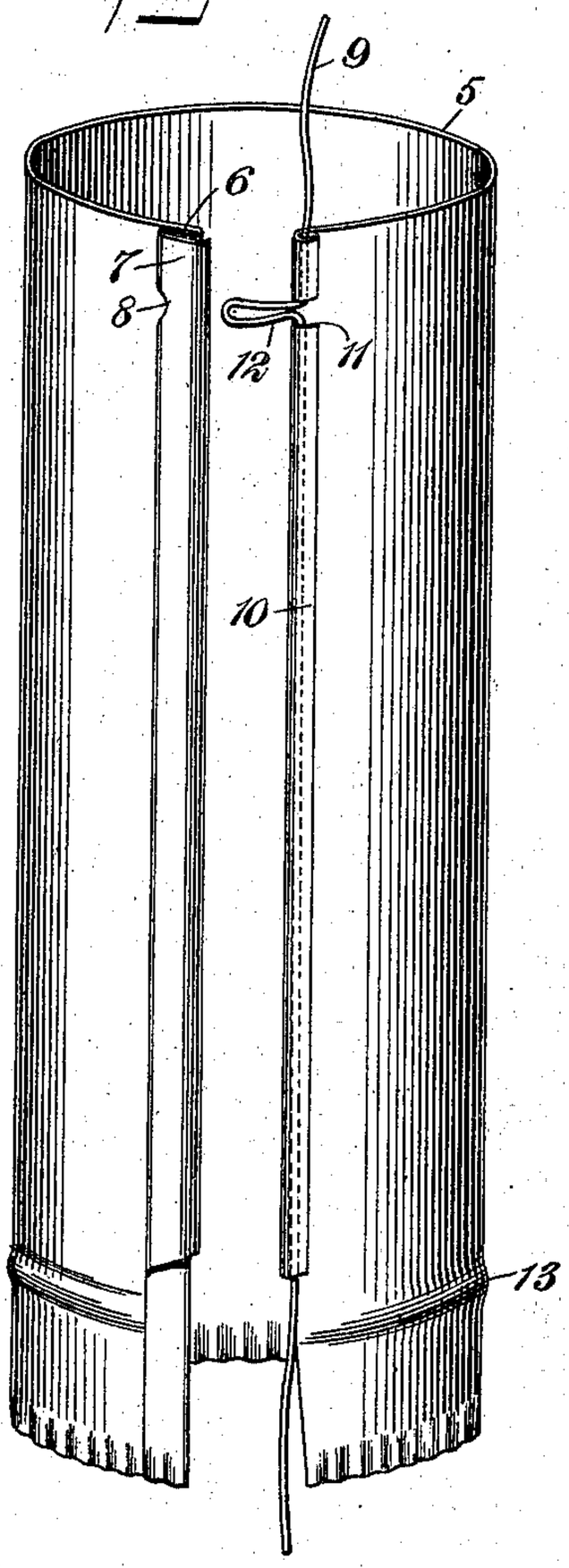


Fig. 3.

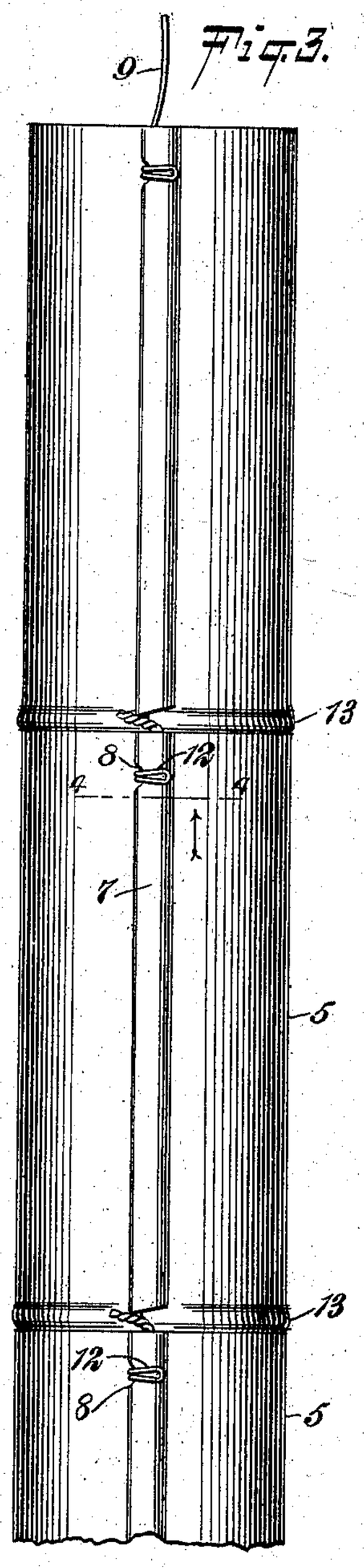


Fig. 2.

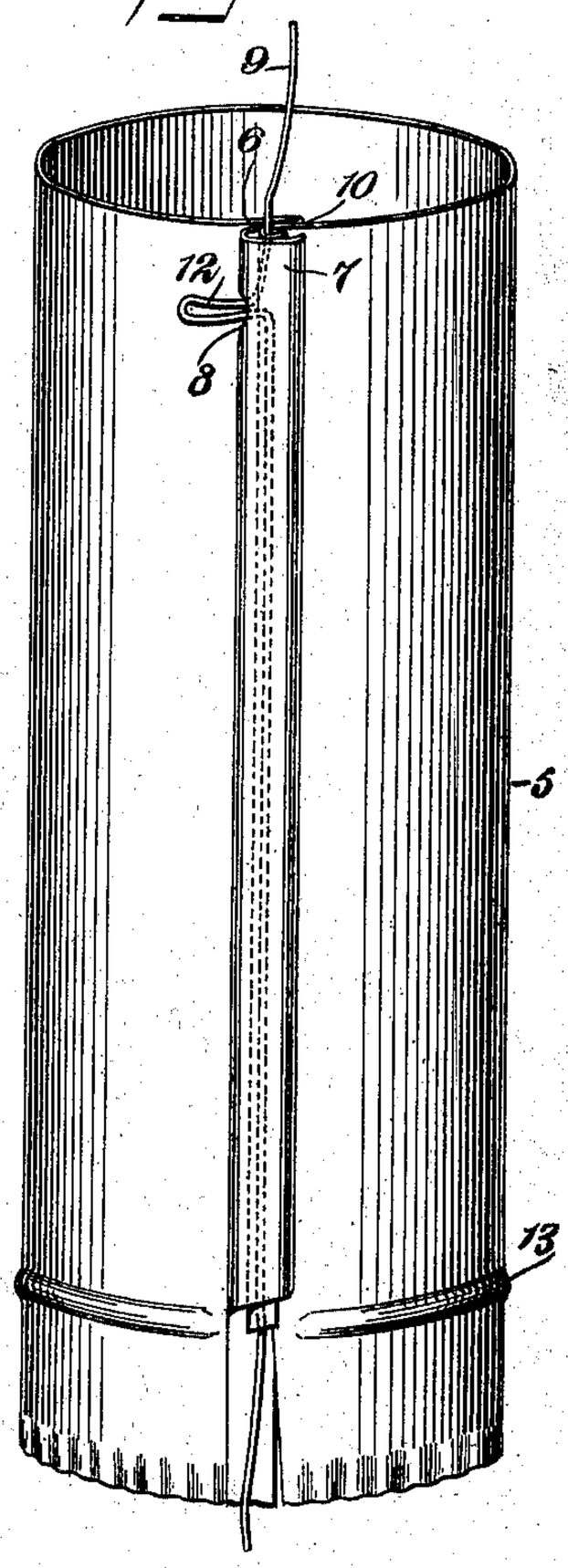


Fig. 4.

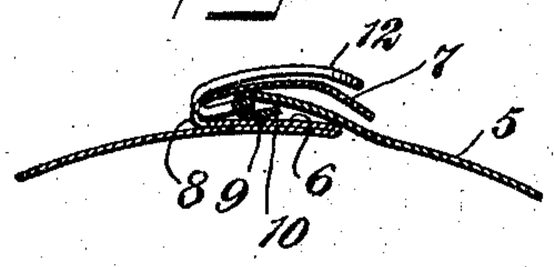
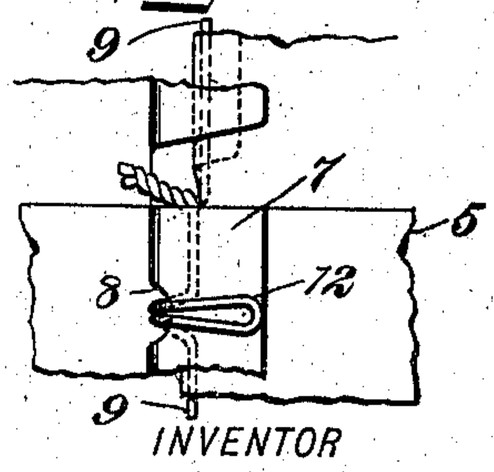


Fig. 5.



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SHEET-METAL PIPE.

SPECIFICATION forming part of Letters Patent No. 710,262, dated September 30, 1902.

Application filed June 6, 1902. Serial No. 110,470. (No model.)

To all whom it may concern:

Be it known that I, FRANK L. FILSON, a citizen of the United States, and a resident of Point Pleasant, in the county of Mason and State of West Virginia, have invented a new and Improved Sheet-Metal Pipe, of which the following is a full, clear, and exact description.

This invention relates to improvements in sheet-metal pipes, particularly stovepipes; and the object is to provide a simple means for securing the edges together and also for securing the lengths or joints together, so that accidental separation of one joint from another will be practically impossible. The pipe is what is termed as "nested" pipe, because for convenience in transportation the edges of the sections or joints are to be left open, so that several joints may be placed one within another.

I will describe a sheet-metal pipe embodying my invention and then point out the novel features in the appended claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view of a length or joint of pipe embodying my invention with the edges separated as in nesting. Fig. 2 shows a joint of the pipe with the edges interlocked. Fig. 3 shows several joints as secured together. Fig. 4 is a section on the line 4 4 of Fig. 3, and Fig. 5 is a detail showing the fastening-wires as secured together to connect one joint with another.

The sheet-metal pipe 5 has a double fold at one edge—that is, this edge is folded inward, as indicated at 6, and then outward, as at 7—the two folds being spaced apart to receive the opposite edge, as will be hereinafter described. At the bend of the folds a hole 8 is provided to receive a fastening device, as will be hereinafter described.

The fastening device consists of a wire 9, attached to the opposite edge of the pipe. As a convenient means for securing the joint this edge of the pipe is lapped over the wire, as indicated at 10. This lap has an opening 11, through which an outwardly-extended loop 12, formed in the wire, extends, the said loop being designed to pass through the hole 8. It will be noted that the outer fold 7 and the lap 10 terminate somewhat above the bead 13, formed on the lower end of the pipe-joint, which forms a stop for the connecting-joint. The ends of the wire 9 are also extended at both ends beyond the ends of the joints.

In the operation to set up the pipe-joint the edge having the wire is to be passed through the open edge between the spaced folds 6 and 7 and the loop 12 passed through the hole 8. Then the loop is to be turned over upon the outer surface of the fold 7, as indicated in Figs. 3, 4, and 5. As the lapped portion 10 fits snugly between the fold members, a smoke-tight joint is made without hammering the edge of the fold 7 down upon the pipe. When one joint is engaged with another, as indicated in Fig. 3, the adjacent ends of the wire 9 are to be twisted together. This will prevent any accidental displacement of one joint relatively to another.

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

1. A sheet-metal pipe having a double fold upon itself at one edge, the fold members being spaced apart forming an opening at the edge, a hole being provided at the bend of the folded members, and a wire on the opposite edge adapted to pass between the fold members and having a portion for passing through said hole, substantially as specified.

2. A sheet-metal pipe having a double fold upon itself at one edge, the fold members being spaced apart forming an opening at the edge, a hole being provided at the bend of the folded members, a wire at the opposite edge, said opposite edge being lapped over the wire, and an outwardly-extended loop formed in said wire for passing through said hole, substantially as specified.

3. A sheet-metal pipe having a double fold upon itself at one edge, the fold members being spaced apart forming an opening at the edge, a hole being provided at the bend of the folded members, and a wire secured in a

lapped portion of the opposite edge and having a looped portion for passing through said hole, the ends of the wire being extended beyond the pipe length whereby the ends of wires of connected lengths or joints may be twisted together, substantially as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

FRANK L. FILSON.

Witnesses:
STERLING J. MILLER,
EDWARD L. FILSON.