No. 777,552. PATENTED DEC. 13, 1904.

H. W. SMITH.

STOVEPIPE ELBOW.

APPLICATION FILED FEB. 19, 1904.

NO MODEL.

Fig. 1.

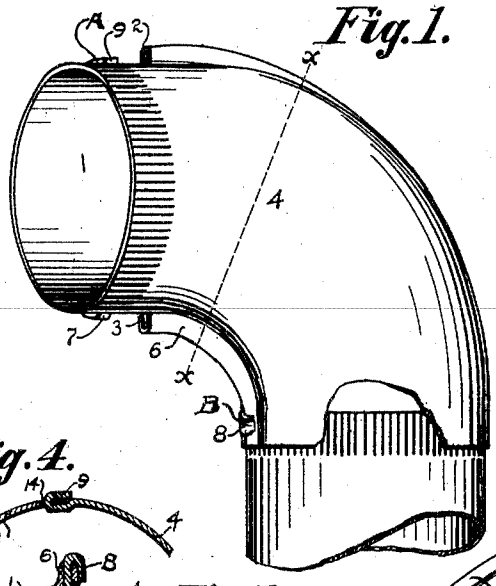


Fig. 2.

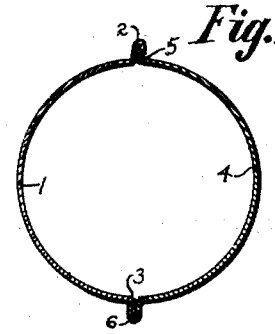


Fig. 4.

Fig. 5.

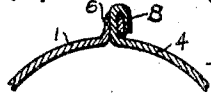


Fig. 3.

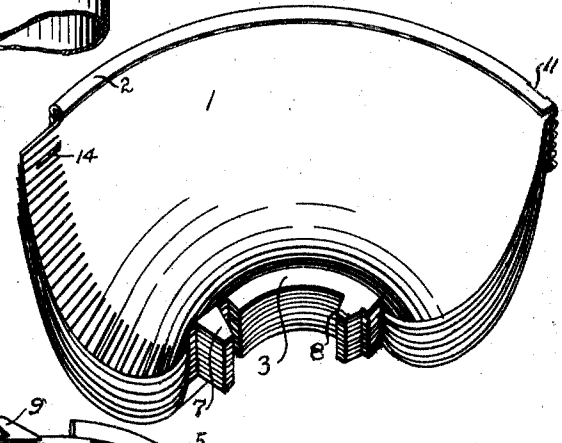


Fig. 6.

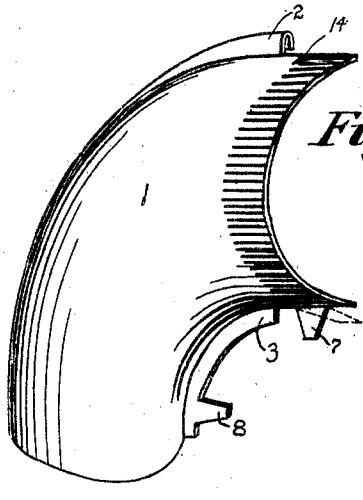


Fig. 7.

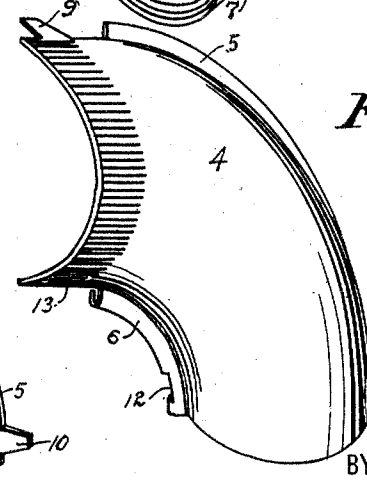
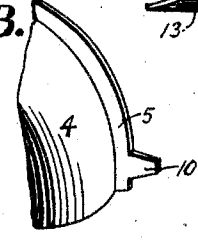


Fig. 8.



WITNESSES:

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ATTORNEY

No. 777,552. Patented December 13, 1904.

UNITED STATES PATENT OFFICE.

HENRY W. SMITH, OF ALLIANCE, OHIO, ASSIGNOR OF ONE-HALF TO PERCY S. BOTTOMLEY, OF ALLIANCE, OHIO.

STOVEPIPE-ELBOW.

SPECIFICATION forming part of Letters Patent No. 777,552, dated December 13, 1904.

Application filed February 19, 1904. Serial No. 194,326. (No model.)

To all whom it may concern:

Be it known that I, HENRY W. SMITH, a citizen of the United States, residing at Alliance, in the county of Stark and State of Ohio, have invented certain new and useful Improvements in Stovepipe-Elbows; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the figures of reference marked thereon.

The object of the present invention is to provide an elbow that can be formed in sections and the sections nested together and shipped while nested and the sections connected together to produce a completed and finished elbow.

Figure 1 is a perspective view showing the elbow properly formed and the section of pipe connected thereto. Fig. 2 is a transverse section on line x x, Fig. 1. Fig. 3 is a view showing a number of sections nested together. Fig. 4 is a view showing a transverse section at point A, Fig. 1. Fig. 5 is a view showing a transverse section of the joint connection at point B, Fig. 1. Fig. 6 is a detached perspective view of one of the elbow-sections, showing the longer flange hooked and the shorter flange plane. Fig. 7 is a view of one of the elbow-sections, showing the longer flange plane and the shorter flange hooked. Fig. 8 is a view showing a portion of one of the elbow-sections and one of the tongues.

The present invention has relation to knock-down-elbows; and it consists in the novel arrangement hereinafter described, and particularly pointed out in the claim.

Similar numerals of reference indicate corresponding parts in all the figures of the drawings.

In the accompanying drawings, 1 represents one section of the elbow, which section is provided with a hooked flange 2, which hooked flange is formed upon the convexed edge of the section. This section 1 is also provided with the plane flange 3, formed upon the concaved edge of the section. The section 4 is provided with the plane flange 5, formed upon the convexed edge of said section, and said section 4 provided with the hooked flange 6, formed upon the concaved edge of section 4.

It will be understood that by forming the hooked and plane flanges upon opposite edges of the sections, the plane flanges can be inserted into the hooked or grooved flanges, thereby connecting the sections together, and when connected together the two sections will be located with reference to each other as illustrated in Fig. 2.

For the purpose of assisting in holding the sections together and preventing them from becoming accidentally detached the section 1 is provided with the tongues 7 and 8 and the section 4 provided with the tongues 9 and 10. The tongue 10 is extended through the slot 11, formed in the hooked flange 2, and the tongue 8 extended through the slot 12, formed in the hooked flange 6. The tongue 7 is extended through the slot 13 and the tongue 9 through the slot 14, said tongues then being bent or folded as illustrated in Figs. 4 and 5.

It will be understood that four tongues and four slots are employed, and of course said tongues and slots are so located that when the sections 1 and 4 are brought together the respective tongues will come opposite the respective slots, so that the tongues may be properly passed through the slots.

It will be understood that by forming the tongue 8 and the tongue 10 so that they can be passed through the slots 12 and 11, respectively, they will have a tendency to hold the flanges 3 and 5 in the hooked flanges 6 and 2, respectively, and when said tongues are are properly bent the two sections 1 and 4 will be securely locked together.

In Fig. 3 a number of sections are shown nested together, and all of the sections shown in said figure are provided with the hooked flanges 2; but it will be understood that the sections 1 and 4 may be nested together and in use should be; but this is a matter of judgment only and has no particular reference to the present invention.

It will be understood that the extended por-

tions of the various tongues should be bent or folded down upon the exterior portion of the pipe-section, as illustrated in Figs. 4 and 5.

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

As an improved article of manufacture, a stovepipe-elbow formed in sections, one of said sections provided with a hooked flange upon its convexed edge and a plane flange upon its concave edge, and the other section provided with a plane flange upon its convexed edge, and a hooked flange upon its concave edge, tongues extended from the edges of the plane flanges, and tongues extended from the body of the sections and spaced from the ends of the plane flanges, said hooked flanges and sections provided with slots adapted to receive the tongues, substantially as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

HENRY W. SMITH.

Witnesses:
J. A. JEFFERS,
F. W. BOND.