

No. 856,839.

PATENTED JUNE 11, 1907.

W. S. BICKEL.
STOVEPIPE JOINT.
APPLICATION FILED FEB. 19, 1907.

Fig. 1.

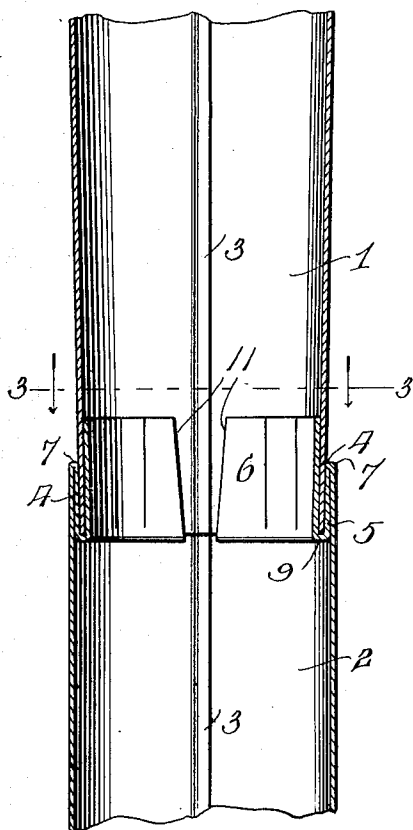


Fig. 2.

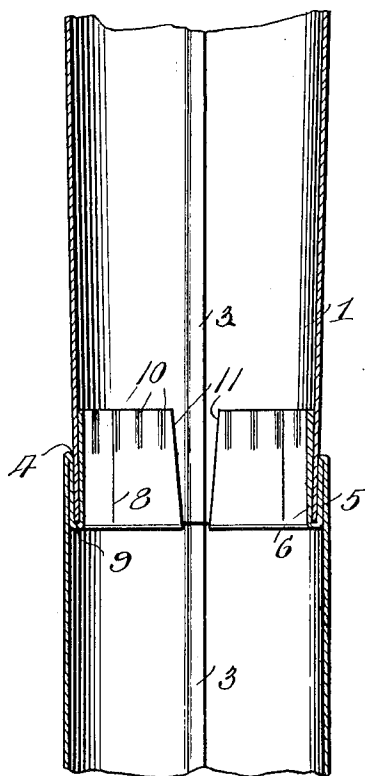


Fig. 3.

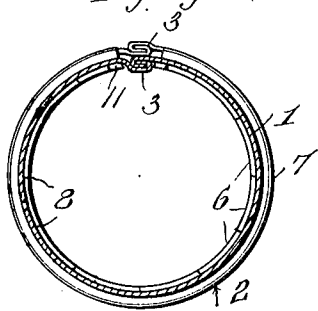
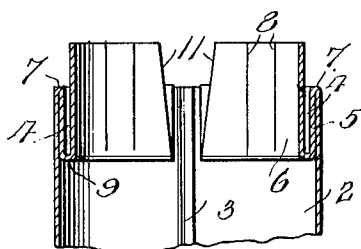


Fig. 4.



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UNITED STATES PATENT OFFICE

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STOVEPIPE-JOINT.

No. 856,839.

Specification of Letters Patent.

Patented June 11, 1907.

Application filed February 19, 1907. Serial No. 358,198.

To all whom it may concern:

Be it known that I, WINFIELD SCOTT BICKEL, a citizen of the United States, residing at Shryock, in the county of Greenbrier and State of West Virginia, have invented new and useful Improvements in Stovepipe-Joints, of which the following is a specification.

This invention relates to a stove pipe or other joint of that type in which two adjacent sections are connected together by the end of one section telescoping in an annular pocket formed at the adjacent end of the other section.

The invention has for one of its objects to provide a pipe joint which is of simple, inexpensive and durable construction whereby the pipe sections can be firmly and easily secured together.

A further object of the invention is to provide a pipe joint in which one section is formed with an annular pocket for receiving the adjacent end of the juxtaposed section.

With these objects in view and others, as will appear as the description proceeds, the invention comprises the various novel features of construction and arrangement of parts which will be more fully described hereinafter and set forth with particularity in the claims appended hereto.

In the accompanying drawing, which illustrates one of the embodiments of the invention, Figure 1 is a central longitudinal section of a stove pipe joint. Fig. 2 is a similar view of a modified form of joint. Fig. 3 is a transverse section on line 3—3, Fig. 1. Fig. 4 is a central section of the pocketed end of one of the pipe sections.

Similar reference characters are employed to designate similar parts throughout the several figures of the drawings.

Referring to the drawing, 1 and 2 designate two sections of a stove, furnace or other pipe that are made of sheet metal pieces and bent cylindrical in a suitable metal working machine and connected at their meeting longitudinal edges by seams 3 in the usual manner. Each section has one end formed into an internal annular pocket 4 for receiving the adjacent end of a juxtaposed section. The pocket 4 is made by bending a portion of the pipe backwardly and inwardly against the body of the pipe and then outwardly. In other words, the pocket 4 is a double re-entrant portion of the pipe section.

The outer ring 5 is turned snugly back against the internal surface of the pipe and the inner ring 6 is slightly spaced from the ring 5 to form a pocket 4. The ring 6 is of such a length as to project beyond the bend 7 so as to extend into the section of the pipe that fits into the pocket 4, thereby affording a substantially internal support for the said section. In order to facilitate the insertion of the pipe section into the pocket 4, the inner ring 6 is provided with a plurality of longitudinally extending slits 8, thereby imparting resiliency to the ring and increasing the grip on the surrounding section. The end of the section 1 that fits into the pocket is inserted the full depth of the latter so as to bear against the bend 9. To increase the hold of the ring 6, the extending portion thereof may be crimped as indicated at 10, Fig. 2.

In order to accommodate the seam 3 of the telescoping end of the section 1, the re-entrant portion of rings 5 and 6 of the section 2 is cut away at 11, said cut-away portion being at the meeting edges of seam 3 of the section 2. By this construction, the seams 3 of the sections will coincide, as shown in Fig. 3. Since the seam 3 of the section 1 enters the recesses produced by cutting away the rings at 11, it is obvious that the sections are locked together against relative turning movement.

In a pipe joint of the character described, no connecting means in the nature of couplings are necessary as the pockets are integral parts of the pipe sections. The joint, therefore, consists of a minimum of parts so arranged that a strong, durable and simple joint is produced.

Having thus described the invention, what I claim is:—

1. A pipe joint comprising two seamed sections, one section being bent into an internal re-entrant annular pocket into which the adjacent end of the other section telescopes, said pocket having its walls recessed in a direction longitudinally of the section for receiving the seam of the other section.

2. A pipe joint comprising a pair of sections and having longitudinal seams, one section being bent to form an internal annular re-entrant pocket having its inner part extending beyond the bend connecting the re-entrant portion with the body of the section and also having a plurality of longitudi-

dinally extending slits for frictionally engaging the other section extending into the pocket, said pocket having a tapered recess to receive the seam of the adjacent section.

- 5 3. A pipe joint comprising a pair of sections having longitudinal seams, one section having an internal annular pocket for receiving the adjacent end of the other section,

the pocket being recessed to receive the seam of the adjacent section. 10

In testimony whereof, I affix my signature in presence of two witnesses.

WINFIELD SCOTT BICKEL.

Witnesses:

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D. B. RAPP.