June 13, 1939. C. CHAPMAN 2,161,997

STOVEPIPE

Filed June 27, 1938

FIG. 1.

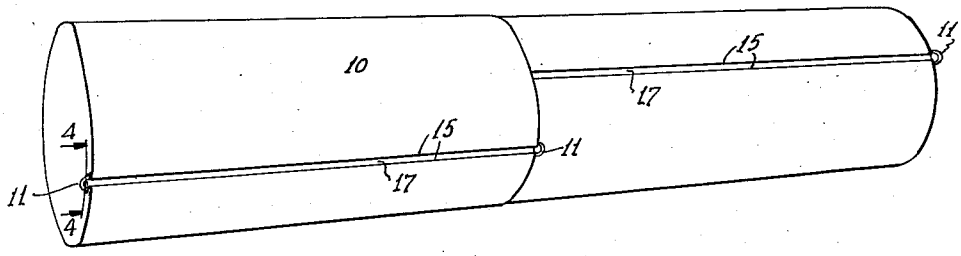


FIG. 2.

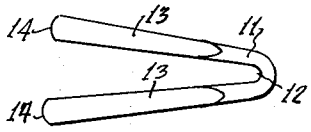


FIG. 4.

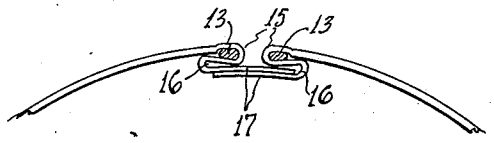


FIG. 3.

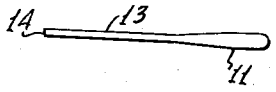


FIG. 5.

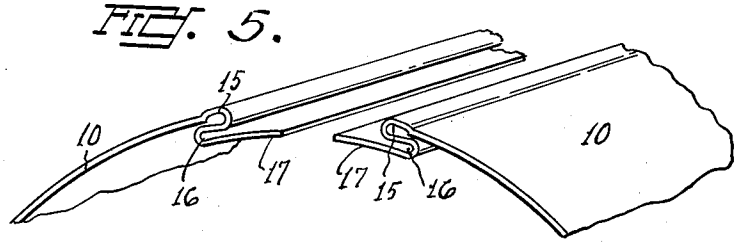
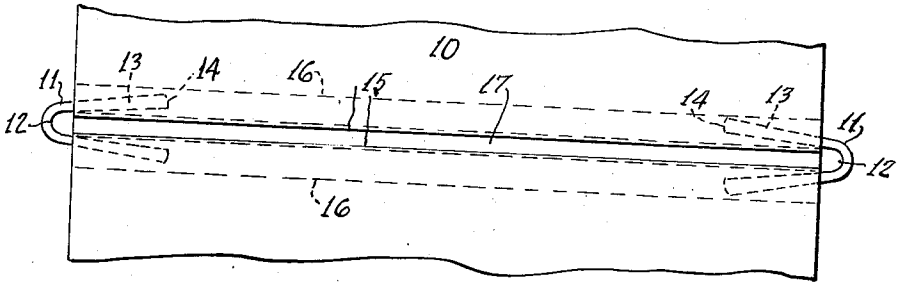


FIG. 6.



INVENTOR

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Patented June 13, 1939 2,161,997

UNITED STATES PATENT OFFICE

2,161,997

STOVEPIPE

Charles Chapman, Clackamas County, Oreg.

Application June 27, 1938, Serial No. 216,023

2 Claims. (Cl. 138—74)

My invention relates to a transversely expansible pipe section, comprising a body portion having a longitudinal seam, each edge being reversely bent to form a double-looped portion with an outwardly extending free portion, the said free portion overlapping and engaging each other and a substantially V-shaped locking key adapted to enter the ends of the outer loop for adjusting and drawing the edges together, and one free portion adapted to enter the inner-loop carried by the opposite wall of the seam.

The object of my invention is to construct a length of pipe with a longitudinally extending seam composed of a reverse bent form on either side thereof, the exterior loop of which reverse bend lips will permit the introduction of a tapered staple key and the interior loops of which will receive reciprocally the sealing flaps of the lips, and whereby the amount of overlap of the sealing flaps will regulate the circumference of the pipe which will be held rigid in place by the position of the tapered staple key.

I obtain these objects in the manner illustrated in the accompanying drawing and set forth in the specification following:

Referring to the drawing:

Figure 1 is the perspective view of two sections or segments of pipe.

Figure 2 is a plan view of the locking staple key.

Figure 3 is an elevation of Figure 2.

Figure 4 is a section taken on line 4—4 in Figure 1.

Figure 5 is a fragmentary view of the pipe seam before assembly.

Figure 6 is a fragmentary view of the completed assembled seam.

No. 10 indicates the pipe; No. 11 indicates the locking staple key; No. 12 indicates the loop end of No. 11; No. 13 indicates the flattened blade portions of No. 11; No. 14 indicates the blade ends of No. 11; No. 15 indicates the exterior loop of the reverse bend seam lip; No. 17 indicates the sealing flap of the reverse bend seam lip.

The locking staple key 11 is constructed with a loop end 12 and two flattened blades 13 extending from each end of the loop end 12 at an acute angle with each other such that the distance between the blade ends 14 is greater in length than the chord distance of the loop end 12. The interior loops of the reverse bend seam lips 16 are constructed so as to reciprocally receive therein the sealing flaps of the seam lips 17 thereby forming the circumference of the pipe segment 10; by inserting the blade ends 14 into the exterior reverse loops 15, the pipe segment 10 is held in place. Further insertion of the flattened portion of the blade ends 13 into the exterior loops 15 causes the pipe seam 17 to further enter the interior loop 16, whereby the circumference of the pipe 10 is diminished. Taking one segment of pipe 10 locked and sealed so that the exterior loops 15 are abutting and the circumference thereof is at a minimum, another section or segment of pipe 10 may be affixed on the section end and on the outside thereof, and by forcing blades 13 locking staple key 11 into the exterior loops 15 the circumference of the outer pipe section 10 is drawn tight and fast forming a solid friction joint. By relieving the pressure on the locking key 11 and by partial removal from the loops 15, the total length of the two sections of pipe in such an assembly may be regulated by the longitudinal movement of the one section of pipe within the other.

What I claim as new and desire to protect by Letters Patent of the United States is:

1. A transversely expansible pipe section, comprising a body portion having a longitudinal seam, each edge being reversely bent to form a double-looped portion with an outwardly extending free portion, said free portions overlapping and engaging each other and a locking key adapted to enter the ends of the outer loops for adjustably drawing the edges together and one free portion adapted to enter the inner loop carried by the opposite wall of the seam.

2. A transversely expansible pipe section, comprising a body portion having a longitudinal seam, each edge being reversely bent to form a double-looped portion with an outwardly extending free portion, said free portions overlapping and engaging each other and a substantially V-shaped locking key adapted to enter the ends of the outer loops for adjustably drawing the edges together and one free portion adapted to enter the inner loop carried by the opposite wall of the seam.

CHARLES CHAPMAN.