

No. 850,371.

PATENTED APR. 16, 1907.

E. O. JERALDS.
SHUT-OFF FOR TUBE COMPRESSORS.
APPLICATION FILED FEB. 1, 1907.

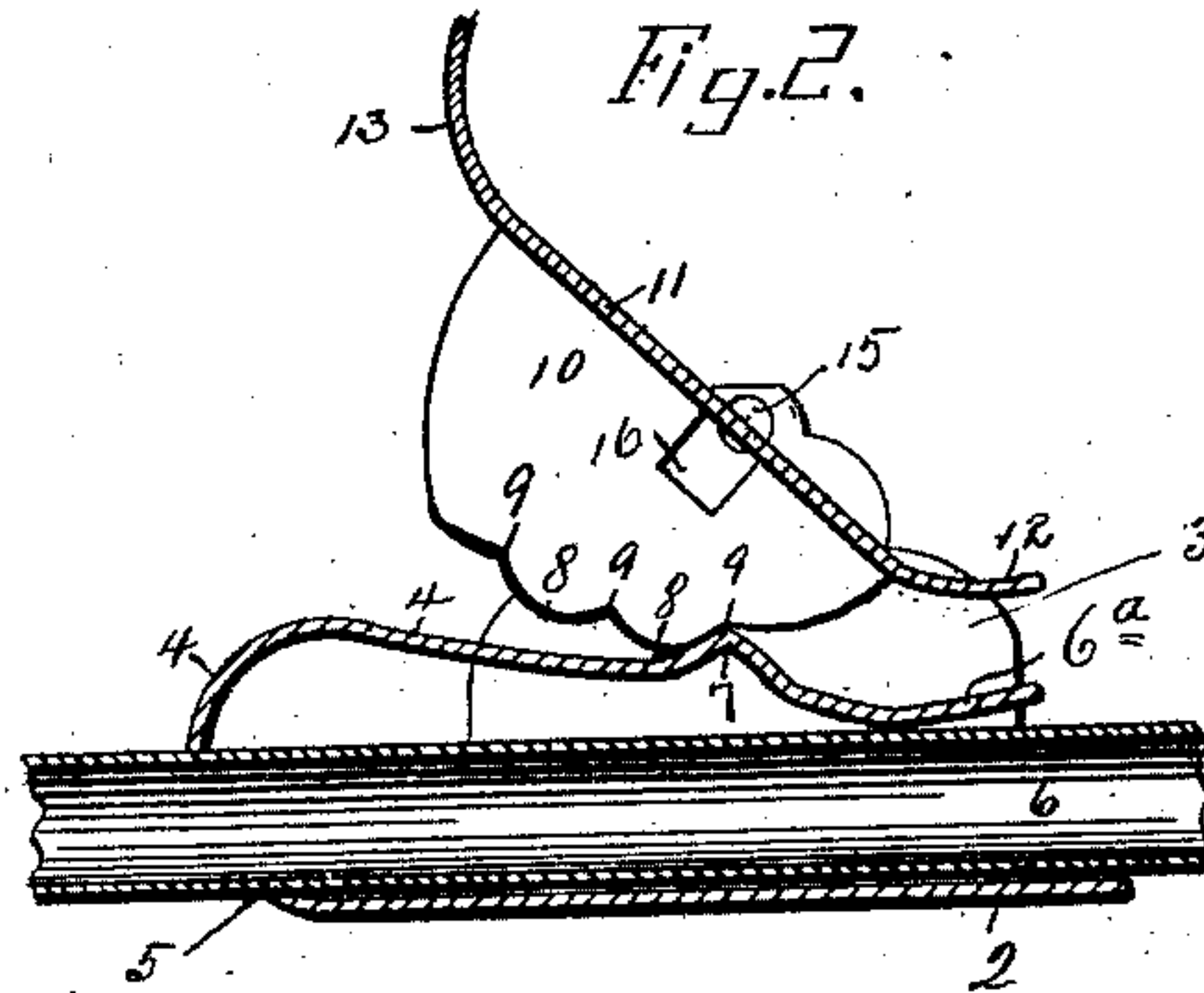
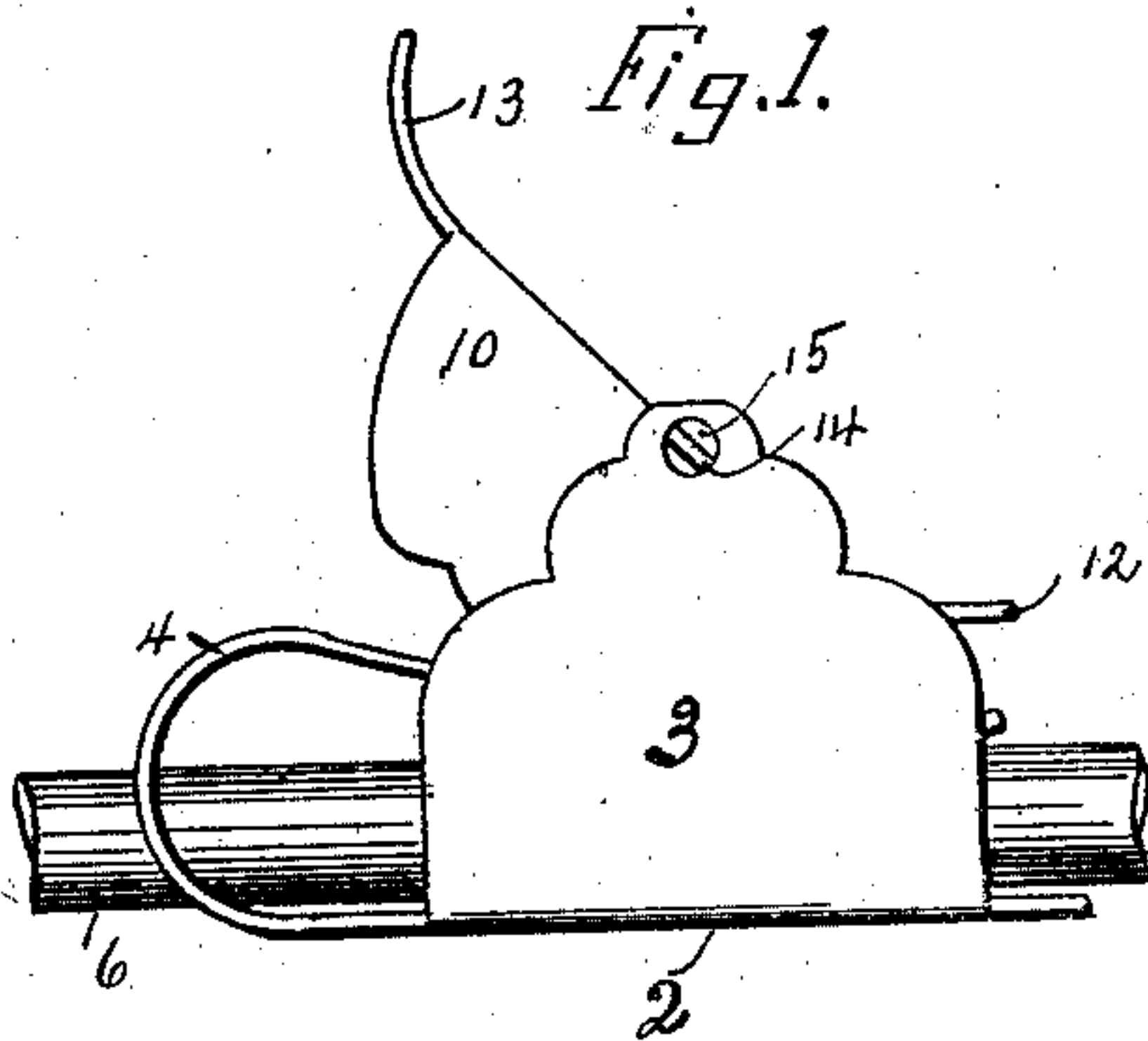


Fig. 3.

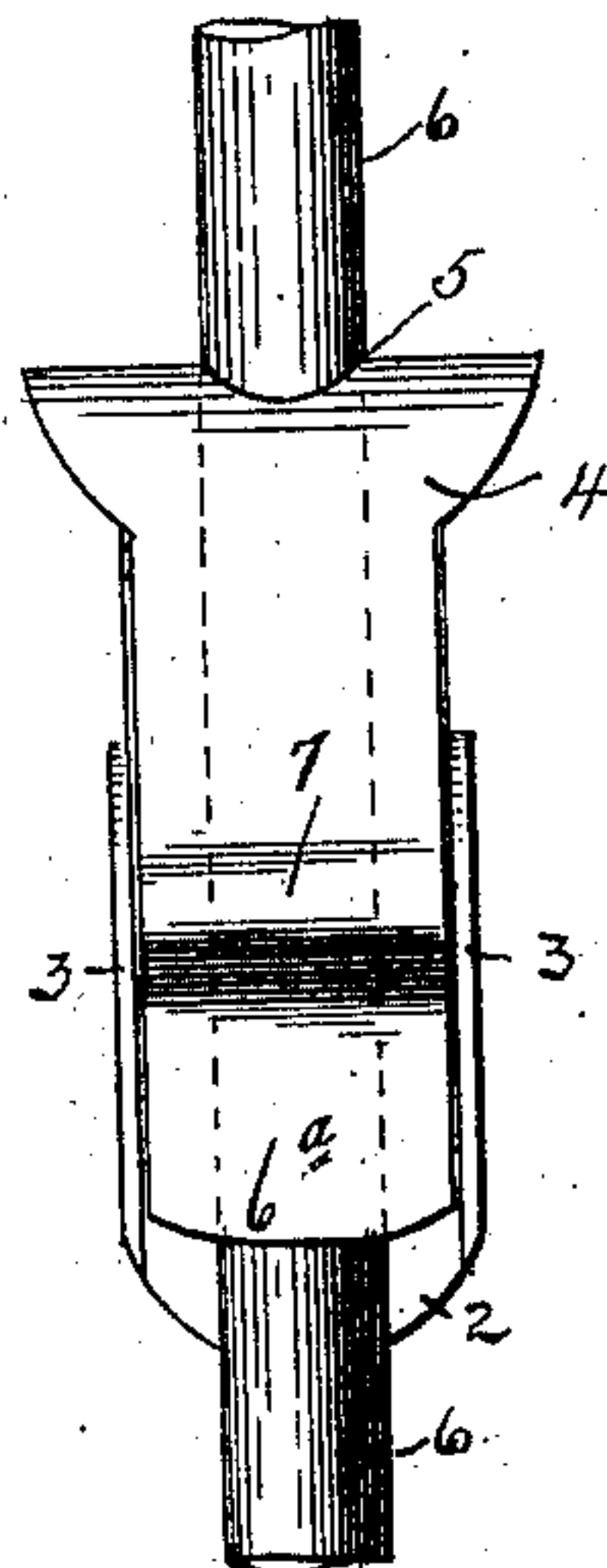


Fig. 4.

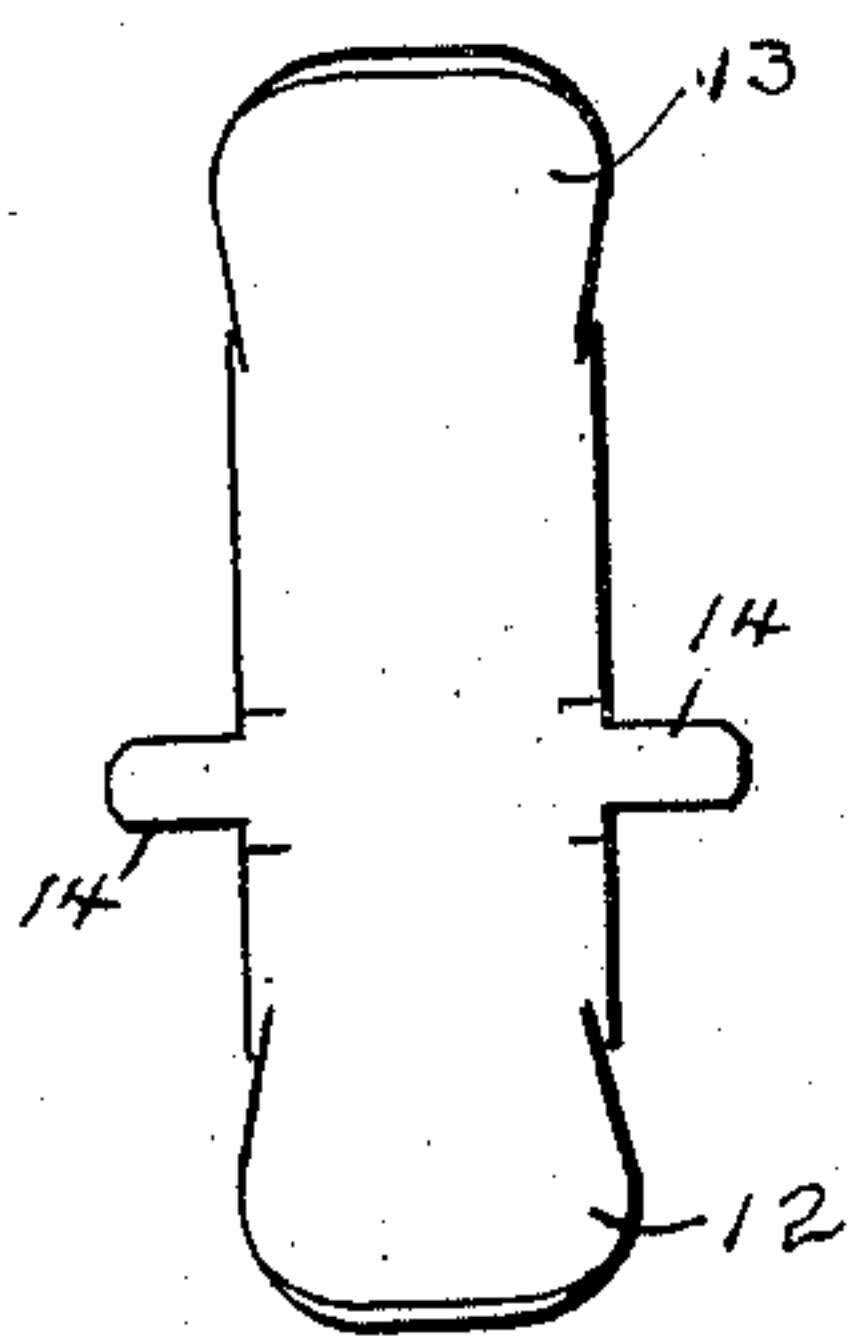
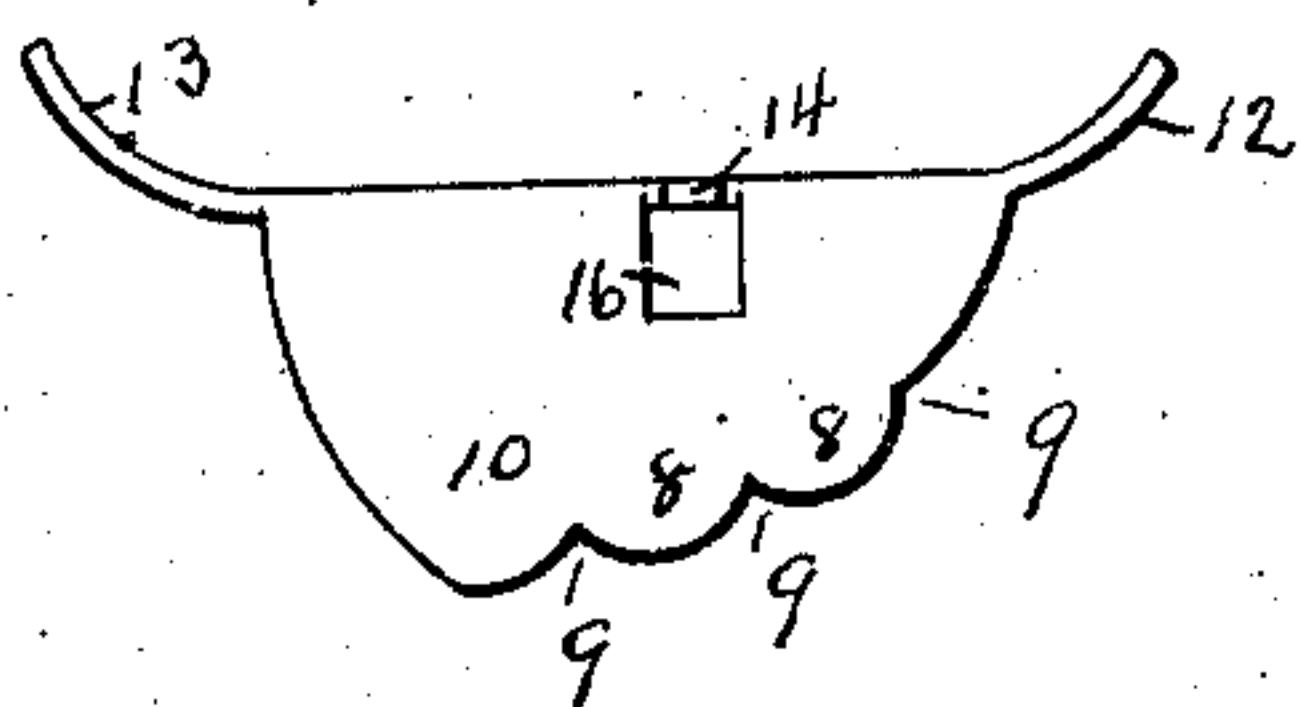


Fig. 5.



Witnesses.
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UNITED STATES PATENT OFFICE.

ELBERT O. JERALDS, OF STAMFORD, CONNECTICUT, ASSIGNOR TO WILLIAM A. TOOKER, JR., OF STAMFORD, CONNECTICUT.

SHUT-OFF FOR TUBE-COMPRESSORS.

No. 850,371.

Specification of Letters Patent.

Patented April 16, 1907.

Application filed February 1, 1907. Serial No. 355,316.

To all whom it may concern:

Be it known that I, ELBERT O. JERALDS, a citizen of the United States, residing at Stamford, in the county of Fairfield and State of Connecticut, have invented a new and useful Shut-Off for Tube-Compressors; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a view in side elevation of a clamp or stop-cock constructed in accordance with my invention; Fig. 2, a view thereof in vertical longitudinal section; Fig. 3, a plan view of the pivotal finger-piece removed; Fig. 4, a detached plan view of the finger-piece; Fig. 5, a view thereof in side elevation.

My invention relates to an improvement in clamps or stop-cocks for flexible tubes, the object being to produce at a low cost for manufacture a simple, durable, and effective device constructed with particular reference to convenience of operation and non-liability to derangement.

With these ends in view my invention consists in a clamp or stop-cock having certain details of construction and combinations of parts as will be hereinafter described, and pointed out in the claims.

In carrying out my invention as herein shown, I employ a sheet-metal body or frame struck up from a single piece of metal and comprising a base-plate 2, two complementary side pieces 3, located opposite each other on the edges of the said base-plate, standing at a right angle to the same and together forming, as it were, a housing. The said base-plate is extended rearward and bent upward to form a bow 4, having a circular clearance-opening 5 for the passage of the tube 6, which lies along the upper face of the base-plate and between the two side pieces. The said bow is extended forward between the side pieces to form a yielding compression-arm 6^a, the end of which is pressed down upon the tube so as to compress the same and partly or wholly stop the passage of water through it. This arm is bent transversely, as shown, to form a rib 7,

located upon its upper face and acted upon by a series of alternate scallops 8 and notches 9, formed upon the curved lower edges of the two cam-like wings 10 of a pivotal finger-piece struck up from a single piece of sheet metal, and also comprising a body 11, and terminating at its ends in arms 12 and 13. This finger-piece is just wide enough to be accommodated between the side pieces 3 aforesaid and is formed with trunnions 14, entering bearing-holes 15 in the extreme upper ends of the side pieces, openings 16 being formed in the wings 10 in the production of the integral trunnions 14. Inasmuch as the scallops 8 and notches 9 are located in the segments of a circle, the compression-arm 5 will be depressed more or less according to the position of the finger-piece, which will be retained in any position in which it may be set by the upward spring of the arm, whereby its rib 7 is entered into the notches between the scallops, which give the cam-like wings roughened edges, as it were, for co-action with the compression-arm. The specific character of these roughened edges may obviously be varied without departing from my invention.

My improved device contains very few parts, and such is the character of its construction that there is no chance of its derangement in use.

I claim—

1. A clamp or stop-cock for flexible tubes, having a body or frame comprising side pieces and a compression-arm located between the same, and a finger-piece pivoted between the said side pieces and formed with one or more cam-like wings which engage with the upper face of the arm and force the same downward upon the tube passing through the frame.

2. A clamp or stop-cock for flexible tubes, having a frame or body comprising a compression-arm and two side pieces between which the said arm is located, and a finger-piece pivotally mounted in the upper ends of the said side pieces and having two parallel cam-like wings extending downward between the said side pieces and formed with scallops coacting with a rib upon the arm.

3. A clamp or stop-cock for flexible tubes having a frame or body comprising a base-plate, two side pieces extending upward

therefrom, a bow and a compression-arm extending forward from the said bow between the side pieces and bent to form a rib; and a pivotal finger-piece pivoted between the said
5 side pieces and formed with wings the lower edges of which are adapted to coact with the said rib.

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

ELBERT O. JERALDS.

Witnesses:

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CLARA L. WEED.