No. 876,702.

PATENTED JAN. 14, 1908.

J. B. DRISCOLL.

HOSE BAND CLAMP.

APPLICATION FILED JUNE 12, 1907.

Fig. 1.

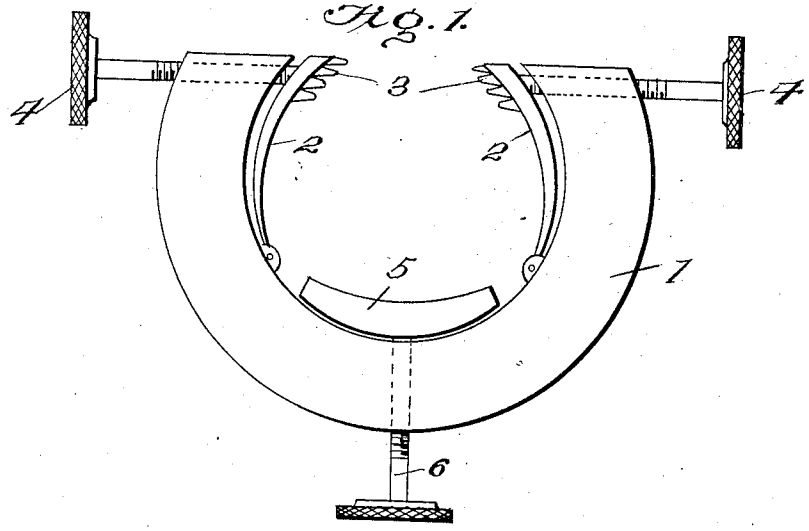
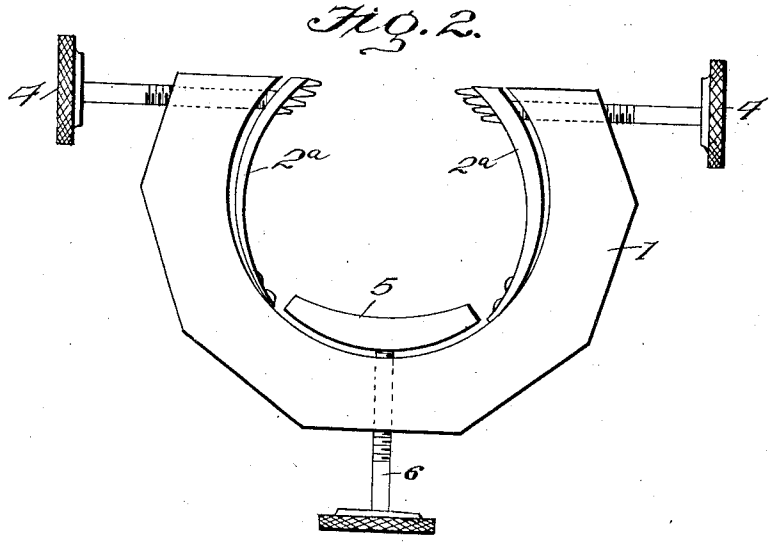


Fig. 2.



Witnesses

Inventor

J. B. Driscoll.

By

R. B. A. Lacey, Attorneys

UNITED STATES PATENT OFFICE.

JOSEPH B. DRISCOLL, OF LOUISVILLE, KENTUCKY.

HOSE-BAND CLAMP.

No. 876,702. Specification of Letters Patent. Patented Jan. 14, 1908.

Application filed June 12, 1907. Serial No. 378,624.

To all whom it may concern:

Be it known that I, JOSEPH B. DRISCOLL, citizen of the United States, residing at Louisville, in the county of Jefferson and State of Kentucky, have invented certain new and useful Improvements in Hose-Band Clamps, of which the following is a specification.

The present invention relates to certain new and useful improvements in that type of clamps which are designed for tightening up the bands which are utilized in splicing hose for the purpose of gripping the latter and holding the same securely in engagement with the coupling sleeve.

The object of the invention is to design a clamp of this character which is simple and inexpensive in its construction, which operates in an effective manner to tighten the bands upon the hose, and which can be readily applied to the hose or removed therefrom as may be required.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction and the means for effecting the result, reference is to be had to the following description and accompanying drawings, in which:

Figure 1 is an end view of a hose clamp embodying the invention. Fig. 2 is a similar view showing a modification.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

Referring to the drawings the numeral 1 designates the frame or stock of the clamp and it will be observed that the said frame is approximately U-shape, the two arms thereof having their extremities deflected inwardly whereby the inner face of the frame lies approximately on the arc of a circle. Each of the limbs of the U-shape frame carries a swinging clamping jaw 2 the outer end of which is provided with a plurality of inwardly extending teeth 3.

In the preferred embodiment of the invention shown in Fig. 1 the inner ends of the clamping jaws 2 are hinged to the frame 1 and swing freely with respect to the same. Clamping screws 4 threaded within the two ends of the frame 1 engage the swinging ends of the respective jaws 2 and are utilized for forcing the said jaws together in the operation of the clamp. A clamping block 5 is located between the clamping jaws 2 and is operated by means of a screw 6 threaded through the base of the frame 1. It will thus be apparent that the clamping block 5 can be raised or lowered by suitably turning the screw 6 and that by manipulating the clamping screws 4 the jaws 2 can be forced inwardly toward each other or permitted to fall apart for the purpose of releasing their grip upon the hose.

A slight modification is shown in Fig. 2 in which the clamping jaws 2^a terminate at their lower end portions in spring extensions which are riveted or otherwise connected to the frame 1 of the clamp. The clamping screws 4 engage the swinging ends of the clamping jaws 2^a and are designed to force the same inwardly against the action of the before mentioned spring extensions. The frame 1 also carries an intermediate clamping block 5 controlled by a screw 6, the two members being identical in construction and operation with those previously described. Attention may also be directed to the fact that in the modification the exterior face of the frame 1 is shown as having an angular formation since under certain conditions this may be preferable to the circular form shown in Fig. 1.

Having thus described the invention, what is claimed as new is:

In a hose band clamp, the combination of an approximately U-shaped frame, the inner face of which lies on the arc of a circle, oppositely facing swinging jaws mounted upon the two limbs of the U frame, clamping screws extending through the limbs of the U frame and engaging the said jaws, a clamping block located intermediate of the clamping jaws, and a screw threaded through the base of the U frame and engaging the clamping block.

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

JOSEPH B. DRISCOLL. [L. S.]

Witnesses:

AUGUST GAMBERT,

ROBT. BARTHOLOMEW.