No. 618,073. Patented Jan. 24, 1899.

J. H. DRISCOLL.

CLAMP FOR INSERTING TUBES IN PNEUMATIC TIRES.

(Application filed Sept. 10, 1898.)

(No Model.)

FIG. 1

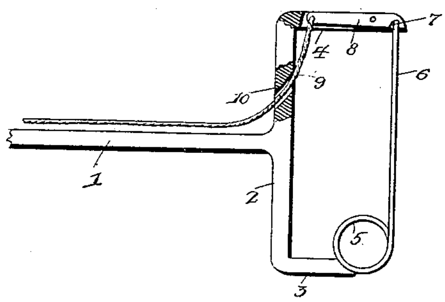


FIG. 2

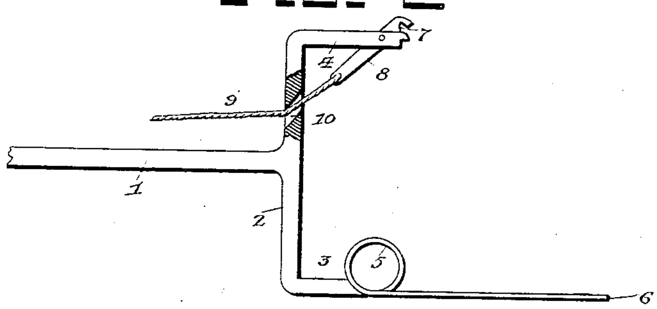
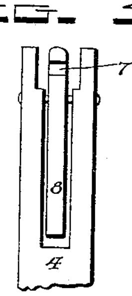


FIG. 3



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UNITED STATES PATENT OFFICE.

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CLAMP FOR INSERTING TUBES IN PNEUMATIC TIRES.

SPECIFICATION forming part of Letters Patent No. 618,073, dated January 24, 1899.

Application filed September 10, 1898. Serial No. 690,656. (No model.)

To all whom it may concern:

Be it known that I, JAMES H. DRISCOLL, a citizen of the United States, residing at Rouse's Point, in the county of Clinton and State of New York, have invented certain new and useful Improvements in Carrier-Clamps for Inserting Inner Tubes in Pneumatic Tires, of which the following is a specification.

My invention relates to a novel form of clamp-carrier for inserting the inner tubes in pneumatic tires; and the object is to provide a simple and effective device of this character for conveniently and expeditiously inserting the inner tubes described and illustrated by me in a concurrent application serially numbered 690,655.

To this end the invention consists in a carrier formed with a flexible handle, to one end of which is fixed a clamp to clasp one end of the inner tube and carry it forward to the proper point in the tire, and means for releasing said tube and withdrawing the clamp without disturbing the tire.

The invention further consists in the construction, combination, and arrangement of the device, as will be hereinafter more fully described, and particularly pointed out in the claims.

In the accompanying drawings the same reference characters indicate the same parts of the invention.

In said drawings, Figure 1 is a plan view of my improved clamp-carrier as it appears closed. Fig. 2 is a similar view showing the carrier open. Fig. 3 is a detail view of one of the clamp-arms.

1 denotes a flexible handle, which may consist of a piece of tempered spring-steel wire, one end of which is formed with a transverse bar 2, terminating in the longitudinal parallel arms 3 4.

5 denotes a coiled spring fixed to the outer end of the arm 3, and its free tongue 6 is adapted to engage a notch 7 in the forward end of a trigger 8, fulcrumed in the bifurcated end of the arm 4 to retain it in a position parallel with the bar 2, and when released by said trigger the tongue is adapted to spring outwardly, as shown in Fig. 2.

9 denotes a cord or fine wire connected to the rear end of the trigger 8, and, after passing through the guide-orifice 10 in the bar 2, it extends rearwardly and parallel with the wire handle 1.

In using the carrier the collapsed end of the deflated inner tube is clamped between the bar 2 and the tongue 6, which is secured in position by the trigger. The carrier and the tube are now inserted in the tire, the end of the tube being carried forward to the proper point by means of the handle 1, and by drawing on the cord 9 the trigger trips the tongue 6, so as to release the tube and permit the carrier to be withdrawn.

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

1. An inner-tube carrier comprising a flexible handle, a spring-actuated clamping-tongue fixed to one end of said handle, and means for confining and releasing the free end of said tongue, as and for the purpose set forth.

2. In combination, the flexible handle 1, the bar 2 fixed to one end of said handle and terminating in the parallel arms 3 4, the spring-tongue 5 6 fixed to the arm 3, the trigger 8 fulcrumed in the arm 4 and having its notched end projecting into the path of the free end of said tongue, and means for releasing said trigger, substantially as shown and described.

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

JAMES H. DRISCOLL.

Witnesses:

JOHN A. MANNIX,

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