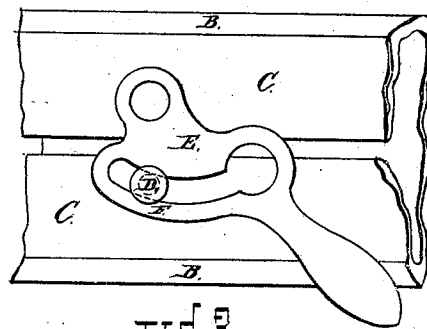
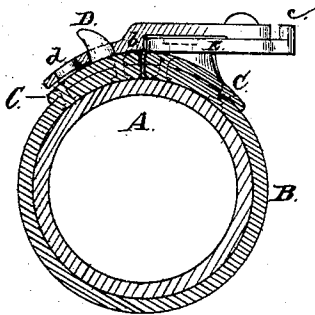
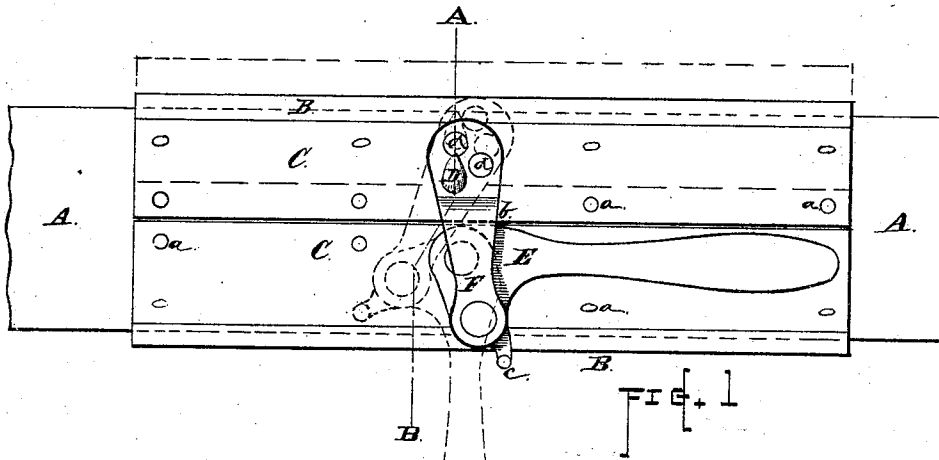


W. FLYNN.  
Hose-Patches.

No. 146,895.

Patented Jan. 27, 1874.



Witnesses  
Charles Burleigh  
Geo. J. Morry

Inventor  
William Flynn

# UNITED STATES PATENT OFFICE.

WILLIAM FLYNN, OF WORCESTER, MASSACHUSETTS, ASSIGNOR OF ONE-HALF HIS RIGHT TO JOHN B. TOGUS, OF SAME PLACE.

## IMPROVEMENT IN HOSE-PATCHES.

Specification forming part of Letters Patent No. **146,895**, dated January 27, 1874; application filed December 16, 1873.

*To all whom it may concern:*

Be it known that I, WILLIAM FLYNN, of the city and county of Worcester and Commonwealth of Massachusetts, have invented a certain new and useful Hose-Patch for Closing Leaks in Fire-Engine Hose; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 represents a plan view of my improved hose-patch. Fig. 2 represents a transverse section of the same at line A B, Fig. 1; and Fig. 3 represents a plan view of the locking eccentric lever when made in a somewhat modified form.

This invention relates to an improved adjustable patch device, provided with an eccentric lever or locking-catch, arranged for attachment to fire-engine hose, for the purpose of stopping leaks therein when the hose becomes burst or otherwise injured during action. The object of my invention is to provide a patch device which can be conveniently carried on the hose-carriage or by the firemen, and which can be quickly and effectively applied to use while the hose is in action; also, one which will not interfere with the necessary handling of the hose, or become disconnected or disarranged by the hose being moved or rolled up on the ground.

To enable those skilled in the art to which my invention belongs to make and use the same, I will describe it in detail.

In the drawing, the part marked A represents the hose, which may be any ordinary fire-engine hose which has burst or become injured. B indicates the patch-piece, which may be made of leather, rubber, cloth, or other materials such as are used in the construction of hose. The piece B is of rectangular form, and of sufficient size to extend around the hose A. The opposite edges of the piece B are re-enforced with metal plates C C, secured thereto by rivets *a*, and properly curved to correspond with the curvature or cylindrical surface of hose. One of the plates C is provided with a projecting stud or horn, D, near its longitudinal center,

while the other plate C, at a corresponding position, is provided with an eccentric lever or catch, E, for locking the parts to each other, and thus securing the patch in position around the hose. The lever E is pivoted to the plate C, so as to swing in a plane parallel, or nearly so, with the axis of the hose, and a connecting piece or loop, F, provided with suitable holes, is arranged to loop over the stud or horn D, for forming the connection between the plates C C. The opening *d* is placed over the stud when the lever is swung forward, (see dotted lines, Fig. 1,) and then, by swinging the lever E back to a position parallel with the axis of the hose, the plates C C and edges of the patch-piece B are, by the eccentricity of the catch, drawn together, causing the patch to embrace the hose and securely close the leak. The eccentric of the lever swings past the pivot-center, so that the strain upon the patch tends to hold the parts in their locked position. The side of the lever, in this instance, strikes the shoulder *b* of the loop-piece F, and prevents the lever from moving past a given position, while a stop-pin, *c*, is provided to prevent said lever from swinging past the loop-piece F in the opposite direction.

Several holes, *d*, may be formed in the loop-piece F at different positions, so that the patch can be adjusted to any variations in the sizes of hose whereon it is used.

In applying the device to use, the patch B is placed around the hose at a short distance from the burst or leak, and the edges looped to each other by the catch being placed over stud D. The patch is then slipped along the hose until it covers the opening, when the lever is quickly swung around, so as to tighten the patch and stop the escape of water. In this manner the patch can be quickly applied while the hose is in use, and the hose thus rendered serviceable without delay or inconvenience.

It will be noticed that, when the patch is on the hose, the lever E lies close to the side thereof, so that it is not liable to be disconnected or loosened by moving or rolling the hose along the ground, and does not interfere with the ordinary handling of the hose.

In Fig. 3 is shown a modified construction of the eccentric lever or catch, the loop and lever being in a single piece, and the stud provided with a button-like head to work in the loop-slot, which is formed eccentrically with the pivot of the lever. I prefer, however, the construction shown in Fig. 1.

Having described my improved hose-patch, what I claim therein as new and of my invention, and desire to secure by Letters Patent, is—

1. The combination, with the patch-piece B,

of an eccentric catch device for drawing the edges together and locking the patch around the hose, substantially as set forth.

2. The combination, with the patch-piece B, of the re-enforce plates C, stud D, eccentric lever E, and loop-piece F, substantially as and for the purpose set forth.

WILLIAM FLYNN.

Witnesses:

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