L. B. DUTCHER.

HOSE PATCH.

APPLICATION FILED MAR. 20, 1917.

1,261,221. Patented Apr. 2, 1918.

Fig. 1.

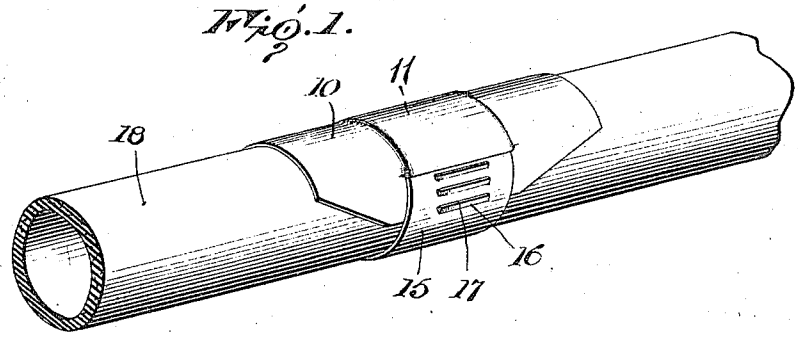

Fig. 3.

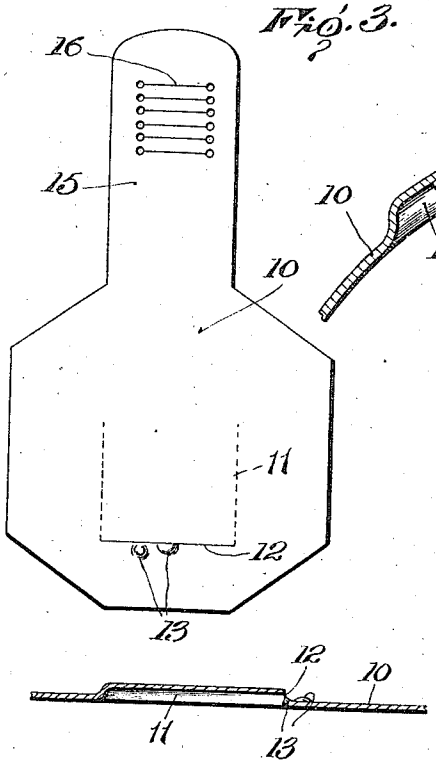

Fig. 2.

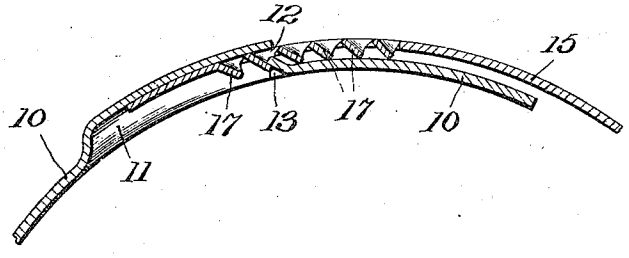

Fig. 5.

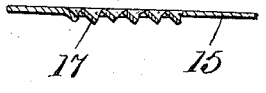

Fig. 4.

Inventor

L. B. Dutcher.

By

Attorneys.

UNITED STATES PATENT OFFICE.

LEWIS B. DUTCHER, OF OSWEGO, NEW YORK.

HOSE-PATCH.

1,261,221. Specification of Letters Patent. Patented Apr. 2, 1918.

Application filed March 20, 1917. Serial No. 156,137.

To all whom it may concern:

Be it known that I, LEWIS B. DUTCHER, a citizen of the United States, residing at Oswego, in the county of Oswego and State of New York, have invented certain new and useful Improvements in Hose-Patches, of which the following is a specification.

This invention relates to devices employed for temporarily closing a leak in a hose, more particularly a garden hose, or one wherein the pressure is not relatively high, and has for one of its objects to improve the construction and increase the efficiency and utility of devices of this character.

Another object of the invention is to provide a simply constructed device which may be applied to a hose where a leak or puncture occurs without the necessity of employing implements other than the hand of the operator, and which temporarily closes the leak or puncture.

With these and other objects in view, the invention consists in certain novel features of construction, as hereinafter shown and described and then specifically pointed out in the claims; and in the drawings illustrative of the preferred embodiment of the invention—

Fig. 1 is a perspective view of a section of hose with one of the devices attached.

Fig. 2 is an enlarged sectional detail illustrating the construction and manner of operating the locking feature of the improved device.

Fig. 3 is a view of the blank from which the improved device is constructed.

Fig. 4 represents a longitudinal section of one of the terminals of the attachment.

Fig. 5 is a longitudinal section of the other terminal of the attachment.

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.

Garden hose are frequently punctured or subject to small leaks or cracks which destroy their usefulness, and to temporarily close such punctures or leaks is the object of the present invention, which is constructed from a sheet of bendable metal, represented as a whole at 10, and with a portion near one end depressed to form a recess 11 opening toward one side of the plate, and with a slot 12 formed through the plate at one end of the recess. At one edge of the slot the metal is upset to form two or more projections or "humps" 13.

At the end opposite to the recessed portion 11 the plate 10 is reduced to form a relatively elongated tongue 15, and formed through the tongue near its outer end and transversely thereof are a plurality of clefts 16 and the material between the clefts bent down to form tongues 17 which project beyond the general face of the tongue.

The plate 10 is designed to be bent into cylindrical form, initially somewhat larger than the hose to which it will be attached, a portion of which is represented at 18, with the open side of the recess toward the hose. The tongue 15 is then thrust through the slot 12 and pressure applied by the hands to compress the plate 10 around the hose which movement causes the tongue to pass through the slot and over the outwardly directed projections 13 and engages one of the tongues 17 therewith, and by continuing the pressure the member 10 may be caused to closely engage the surface of the hose and be locked in position thereon. The body 10 and the tongue 15 being of relatively light sheet metal, the tongues 17 will yield sufficiently to permit them to pass over the "hump" or projection 13 when the requisite compression force is applied to the band, as will be obvious.

The projections 13 will be spaced apart one half the distance between each pair of the tongues 17, so that the device may be locked in position at twice as many points as there are tongues.

Thus the "range" of the locking feature of the device is materially increased without increasing the number of the tongues.

In applying the plate to the hose it will be understood that the body portion of the plate will be disposed opposite the leak or puncture, and when the plate is locked in position on the hose the puncture will be closed. The improved device is simple in construction, can be applied without the necessity of employing implements of any kind other than the hands of the operator. By forming a plurality of the clefts 16 and the tongues 17, the improved device may be adapted to hose of various sizes.

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

1. A device of the class described comprising a yieldable band adapted to surround an

object and having a plurality of transverse clefts near one end and a transverse slot near the other end, the material between the clefts being bent to form tongues inclined to the plane of the band and a projection at one edge of the slot directed obliquely to the plane of the band and with which the inclined tongues engage one at a time when the portion of the band having the clefts and tongues is inserted through the slot.

2. A device of the class described comprising a yieldable band reduced at one end and adapted to surround an object, said band having a transverse slot near the unreduced end with the material adjacent to the slot pressed outwardly to form an inwardly opening recess closed at one end and with which the slot communicates, one edge of the slot being provided with a projection and the reduced portion provided with a plurality of transverse clefts with the material between the clefts pressed inwardly to form inclined tongues to engage the projection of the slot when the reduced portion of the band is inserted through the slot and into the recess.

In testimony whereof I affix my signature.

LEWIS B. DUTCHER. [L. S.]