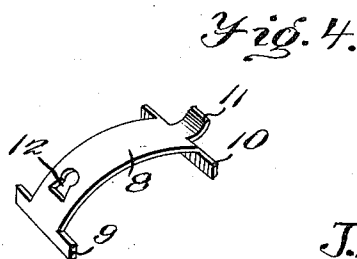
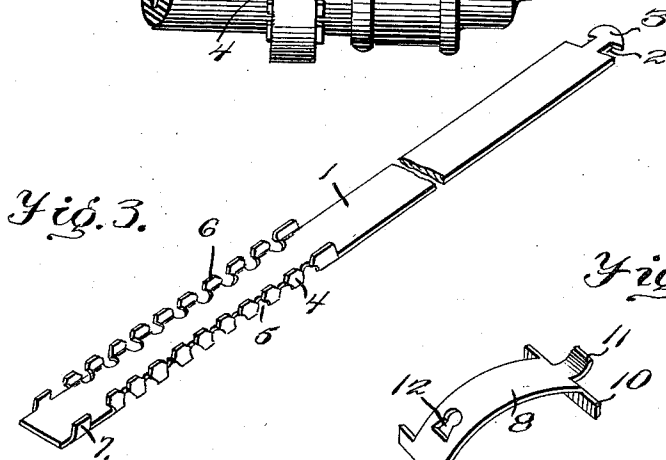
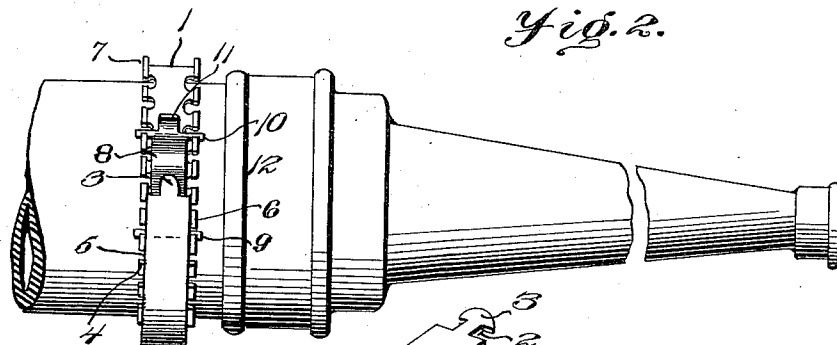
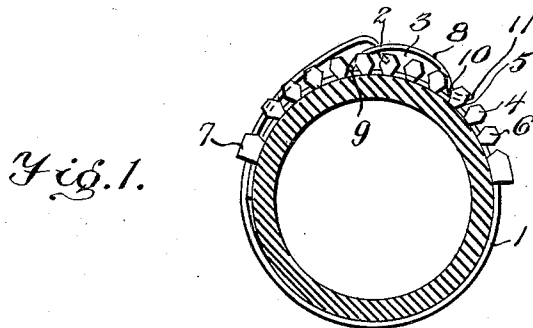


J. S. GRAHAM.
HOSE CLAMP.
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1,023,639.

Patented Apr. 16, 1912.



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UNITED STATES PATENT OFFICE.

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HOSE-CLAMP.

1,023,639.

Specification of Letters Patent.

Patented Apr. 16, 1912.

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To all whom it may concern:

Be it known that I, JAMES S. GRAHAM, citizen of the United States, residing at Magdalena, in the county of Socorro and State of New Mexico, have invented certain new and useful Improvements in Hose-Clamps, of which the following is a specification.

This invention has relation to a hose clamp, and has for its object to provide a simple structure of the nature stated which when applied to the hose is adapted to lie snug against the side of the same, thereby presenting no obstruction to the free handling of the hose.

In structure the clamp consists of a strip of resilient metal having in the vicinity of one end upturned flanges which are provided with notches, the said notches being of greater diameter at their inner ends than at the edges of the flanges. Also the said strip is provided at its side edges and beyond the ends of the flanges with upturned guiding lugs. A resilient lever is pivoted to the end of the said strip remote from the end thereof at which the said flanges are mounted, and the said lever is provided at its sides with shoulders adapted to be moved into the said recesses and enter the enlarged portions thereof, whereby the opposite end portions of the strip are securely fastened together.

For a full understanding of the invention reference is to be had to the following description and accompanying drawings, in which:

Figure 1 is an edge elevation of the hose clamp applied; Fig. 2 is a side view of the same; Fig. 3 is a perspective view of a strip which is a part of the clamp; and Fig. 4 is a perspective view of a lever somewhat enlarged and which is a part of the clamp.

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

The clamp consists of a flexible metallic strip 1 having at one end side recesses 2 which form a head extremity 3. In the vicinity of the other end of the said strip its side edges are provided with upstanding flanges 4 which are divided along their lengths by recesses 5 into heads 6. These recesses 5 are of greater transverse dimension at their inner ends than at their outer

ends which open at the edges of the flanges 4. Guiding lugs 7 are formed up at the side edges of the strip 1 and beyond the edges of the flanges 4. A flexible lever 8 is provided and the said lever is curved longitudinally. The lever is provided at its opposite ends with outwardly disposed lugs 9 and 10. The lever is provided at one end with an extremity 11 which is reduced in breadth as compared with the body portion of the lever. At a point between the lugs 9 and 10 the lever 8 is provided with an elongated slot 12. This lever is adapted to be positioned upon the head 3 of the strip 1 hereinbefore described.

To assemble the parts the lever 8 is turned so that its long dimension is approximately in the same plane parallel with the planes of the sides of the strip 1. The head 3 of the strip 1 is then inserted through the slot 12 and the lever 8 is turned so that the recesses 2 receive within them the edge portions of the slot 12. The lever 8 is then free to swing in the direction of the longitudinal dimension of the strip 1.

To apply the clamp to a hose, the strip 1 is encircled around the hose and that end portion which carries the lever 8 is permitted to lie against the other end portion of the said strip between the guide lugs 7 and the flanges 4. The lugs 9 are then inserted in the recesses 5 adjacent the lugs 7 and the said lever 8 is swung down so that it lies just above the edges of the flanges 4. Thus the strip 1 is drawn tight around the hose. Pressure is then applied to the intermediate portion of the lever 8 which partially flattens, thereby elongating the lever and causing the lugs 10 to enter the recesses 5 more remote from the guide lugs 7 and those recesses which receive the lugs 9. Thus the clamp is securely positioned upon the hose. To remove the clamp from the hose, pressure is applied to the intermediate portion of the lever 8 which flattens and elongates the same causing the lugs 10 to move approximately midway between the side edges of the lugs receiving them. The free end portion of the lever 8 is then lifted by inserting the finger or an implement under the extremity 11 so that the lugs 10 are swung above the upper edges of the flanges 4 and out of the recesses 5. The lever 8 may then be swung bodily in a backward direction toward the outer side of the strip 1 and thus

the said strip may be removed from the hose.

When the lever 8 is in engagement with the flanges and is swung down against the strip 1 the parts are compactly assembled and the flanges and guide lugs 7 serve as means for preventing that end portion of the strip which carries the lever from being depressed edgewise with relation to the other end portion of the said strip.

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

1. A hose clamp comprising a strip having at its side edges and in the vicinity of one end upstanding flanges provided with recesses which are of greater transverse dimension at their inner ends than at their outer ends, a flexible lever fulcrumed upon the other end portion of the strip and being curved longitudinally, said lever having at its side edges lugs adapted to enter the recesses in the flanges.

2. A hose clamp comprising a strip having at its side edges and in the vicinity of one end upstanding flanges provided with recesses which are of greater transverse dimension at their inner ends than at their outer ends, and a flexible lever fulcrumed upon the other end of the strip and being curved longitudinally, said lever having at its side edges lugs adapted to enter the spaces in the flanges, said lever being provided at its free end with an extremity disposed at an angle to the body portion of the lever and which is less in transverse breadth than the transverse breadth of the body portion of the lever.

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

JAMES S. GRAHAM. [L. s.]

Witnesses:

N. D. SHERMAN,
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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."