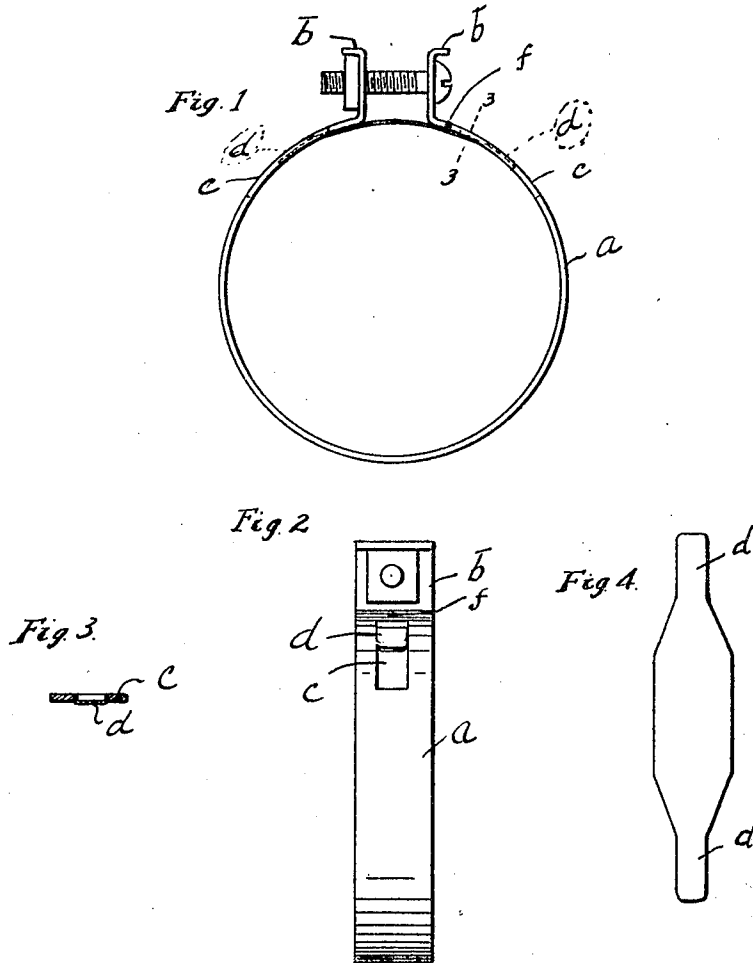


F. M. FUNK.
HOSE CLAMP.
APPLICATION FILED JULY 8, 1918.

1,291,471.

Patented Jan. 14, 1919.



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FRANK M. FUNK, OF DETROIT, MICHIGAN.

HOSE-CLAMP.

1,291,471.

Specification of Letters Patent.

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Application filed July 8, 1918. Serial No. 243,795.

To all whom it may concern:

Be it known that I, FRANK M. FUNK, a citizen of the United States, residing at Detroit, county of Wayne, State of Michigan, have invented a new and useful Improvement in Hose-Clamps, of which the following is a specification.

This invention relates to hose clamps and has for its object a hose clamp of simple yet effective construction. The value of a hose clamp as a manufacturing proposition depends largely upon whether it can be cheaply made and still effectively accomplish its purpose. It is the object of this invention to provide a hose clamp that meets these conditions.

In the drawings,—

Figure 1 is a side elevation.

Fig. 2 is a peripheral elevation.

Fig. 3 is a section on the line 3—3 of Fig. 1.

Fig. 4 is an enlarged detail of the bridging strip.

The clamp comprises the usual band member *a* which has the turned-up lugs *b*, one of which acts to hold the nut from turning. The common form of construction now in use has a bridging strip to fill the gap between the two lugs and which is struck out of the substance of the band. Obviously, however, this strip cannot be the full width of the band or approximate the full width of the band. It has also been proposed to rivet or otherwise fasten the bridging strip to bridge the gap between the two lugs. This, however, is open to the objection that some offset is left between the band and the bridging strip at the two points where it joins the band. I obviate these difficulties by using the ordinary band *a* but striking out two recesses or slots *c* near the lugs of the band. Into these recesses are let the ends of reduced width *d*. This obviously prevents any shoulder between the ends of the bridging strip and the band. This reduced portion dropping into both of the slots otherwise performs a very useful function in that it prevents any substantial twisting of the bridging strip relative to the band. Inasmuch as I spot weld the bridging strip to the band between one of these slots and the adjacent lug, obviously this tends to prevent loosening of the

bridging strip from the band. I find with this construction I can satisfactorily fasten the bridging strip to the band by a single spot weld whereas otherwise it would require several spot welds. This is a very material consideration in the success of an article which must meet the closest competition in cost.

It will be noted that the bridging strip is made of relatively thin metal. In fact, metal of about one quarter the thickness of the band. This aids in avoiding any objectionable shoulder where the bridging strip tapers down to the reduced end. These bridging strips being separate and capable of being made of relatively thin metal, may be made of scrap that would not hardly be available for making a complete clamp. This obviously lessens the cost.

The widening out of the bridging strip makes a better bearing on the hose, while the reduced portion of the bridging strip, as already described, not only avoids the shoulder at the end of the strip but also co-operates to protect the weld.

What I claim is:

1. A hose clamp, comprising a band having lugs to hold a bolt and nut and provided with slots adjacent the lugs, and a bridging strip spot-welded between one of the slots and one of the lugs and comprising a strip having reduced portions at its ends adapted to enter said slots to prevent offsets and a portion intervening of substantially the breadth of the band.

2. A hose clamp, comprising a band having lugs to hold a bolt and nut and provided with slots adjacent the lugs, and a bridging strip to fasten between one of the slots and one of the lugs and comprising a strip having reduced portions at its ends adapted to enter the said slots, and a portion intervening of substantially the breadth of the band.

3. A hose clamp having a band provided with lugs to hold a bolt and nut and with recesses near the said lugs, and a bridging strip fastened to the band at one end of the band and somewhat removed from either end of the bridging strip so as to allow both ends of the bridging strip to enter the recesses in the band.

4. A hose clamp having a band provided

with lugs to hold a nut and with recesses and somewhat removed from either end of
near the said lugs, and a bridging strip the bridging strip so as to allow the two re-
which at its center is substantially the width duced ends to enter the recesses in the band.
of the band and which has reduced end portions, the said bridging strip being spot 10
5 welded to the band at one end of the band my hand on the 5th day of July, 1918.
FRANK M. FUNK.

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