

Nov. 6, 1928.

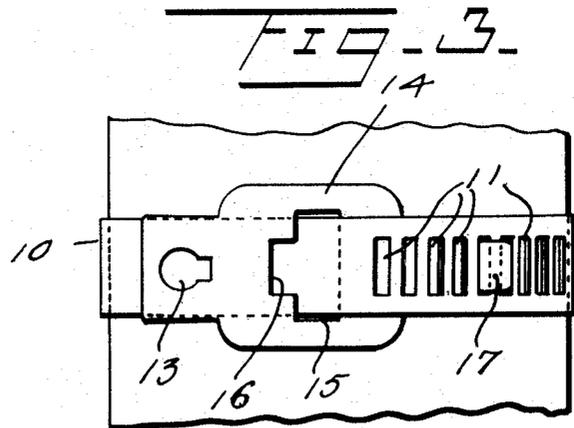
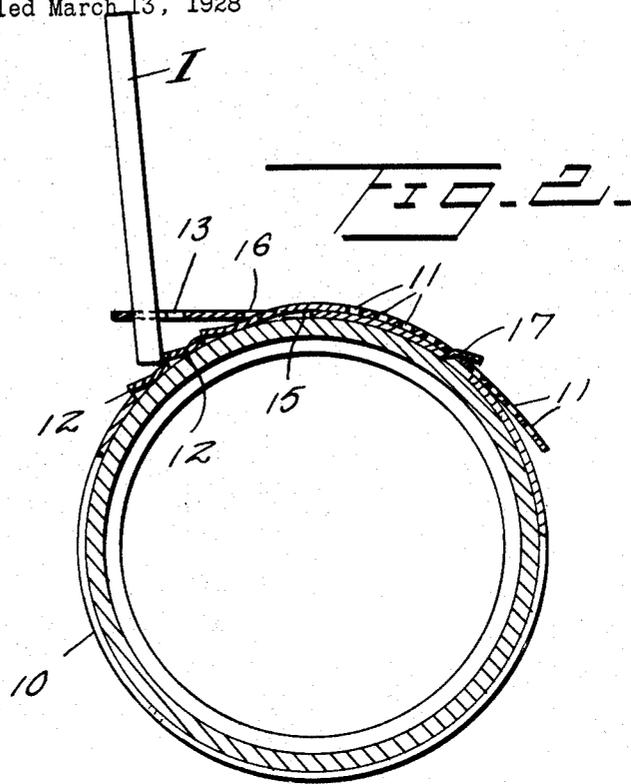
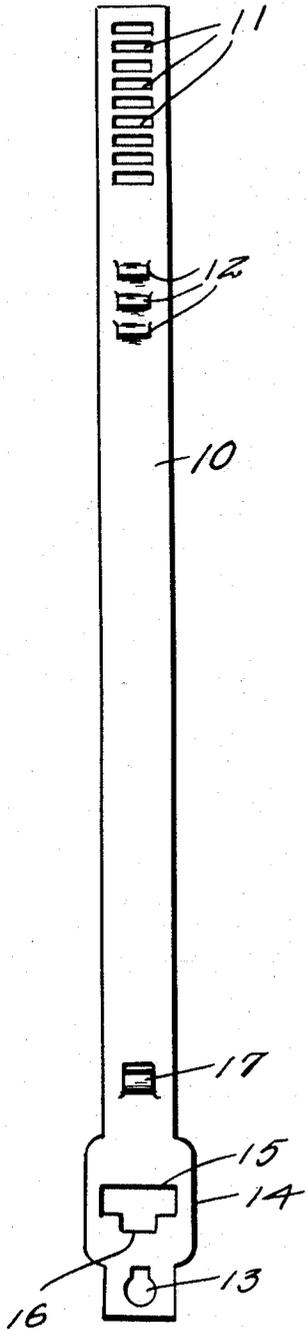
1,690,643

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HOSE CLAMP

Filed March 13, 1928

FIG. 1.



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# UNITED STATES PATENT OFFICE.

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## HOSE CLAMP.

Application filed March 13, 1928. Serial No. 261,334.

This invention relates to hose clamps and more particularly to an improvement of the type of hose clamp illustrated in my prior Patent, No. 1,579,719.

5 An important object of the invention is to provide a construction enabling ready adjustment of the diameter of the band without the use of securing elements other than those afforded by the structure of the band.

10 A further object of the invention is to provide a construction of this character eliminating the use of levers or other such expensive operating mechanism which must be included in the structure of the band.

15 These and other objects I attain by the construction shown in the accompanying drawing, wherein for the purpose of illustration is shown a preferred embodiment of my invention and wherein:—

20 Figure 1 is a plan view of a hose clamp constructed in accordance with my invention;

Figure 2 is a sectional view showing the clamp applied;

25 Figure 3 is a plan view of the applied clamp.

Referring now more particularly to the drawings, the band comprises a strip of metal preferably spring-brass formed adjacent one end thereof with a series of transversely extending slots 11. Inwardly of this series of slots and spaced from the inner end of this series, the band is provided with a series of longitudinally spaced shoulders 12 preferably formed by transversely slitting the band and pressing the edge of the slit more nearly adjacent the openings 11 outwardly, so that shoulders are provided facing the opposite end of the band.

30 The last named end of the band is provided with an opening 13 and inwardly of this opening is enlarged, as at 14. This enlargement has a transversely extending slot 15 which is slightly wider than the band 10 and has at its outer edge a cove 16 of the same width as the shoulders 12. Inwardly of the enlargement, the band is provided with a pressed-out lock tongue 17 which faces toward the first mentioned end of the band.

35 In use of the clamp, it is placed about the hose, the first mentioned end thereof being passed through the slot 15 of the enlargement from the inner face of the band, so that this end lies upon the exterior of the last mentioned end and the series of slots overlies the tongue 17. This end of the band is then

pressed downwardly so that one of these slots engages with the tongue. While holding the first mentioned end of the band pressed down, a lever L is inserted through the opening 13 and engaged with a shoulder 12 and operated to advance the band through the slot 15. The partitions between the openings 11 will ratchet over the tongue 17. When the band is sufficiently tightened, the end thereof may be released and will remain in engagement with the tongue 17 to hold the band in its adjusted position.

When it is desired to release the band from this tongue, all that is necessary is to again insert the lever in the opening 13 and advance the band through the opening 15. Just as soon as the tongue 17 can pass through the opening in which it is engaged, the first mentioned end of the band will swing outwardly of its own resiliency, completing the disengagement, so that upon withdrawal of the lever, the band automatically expands.

It will be obvious that a band of this character may be very cheaply produced, as it may be formed by stamping and has no expensive levers or other accessory parts which require assembling operations. It may be readily applied without the use of any tools other than the lever which may consist of any convenient bar of any description, such as a small screw-driver or the like.

Since the construction hereinbefore set forth is capable of a certain range of change and modification without materially departing from the spirit of the invention, I do not limit myself to such specific structure except as hereinafter claimed.

I claim:—

1. A hose clamp comprising a metallic band having at one end a series of longitudinally spaced transversely extending slots, the opposite end of the band having upon its outer face a spring tongue for engagement in said slots, the last named end of the band outwardly of said spring tongue having a slot through which the first named end of the band may be passed.

2. A hose clamp comprising a metallic band having at one end a series of longitudinally spaced transversely extending slots, the opposite end of the band having upon its outer face a spring tongue for engagement in said slots, the last named end of the band outwardly of said spring tongue having a slot through which the first named end of the band may be passed, the first named end of

the band inwardly of said series of slots having a series of shoulders, the last named end of the band outwardly of the slot thereof being provided with an opening for the passage of a lever to engage said shoulders.

3. A hose clamp comprising a metallic band having at one end a series of longitudinally spaced transversely extending slots, the opposite end of the band having upon its outer face a spring tongue for engagement in said slots, the last named end of the band outwardly of said spring tongue having a slot through which the first named end of the band may be passed, said band being formed of resilient material.

4. A hose clamp comprising a metallic band having at one end a series of longitudinally spaced transversely extending slots, the opposite end of the band having upon its outer face a spring tongue for engagement in said slots, the last named end of the band outwardly of said spring tongue having a slot through which the first named end of the band may be passed, the first named end of the band inwardly of said series of slots

having a series of shoulders, the last named end of the band outwardly of the slot thereof being provided with an opening for the passage of a lever to engage said shoulders, said band being formed of resilient material.

5. A hose clamp comprising a metallic band having at one end a series of longitudinally spaced transversely extending slots, the opposite end of the band having upon its outer face a spring tongue for engagement in said slots, the last named end of the band outwardly of said spring tongue having a slot through which the first named end of the band may be passed, the first named end of the band inwardly of said series of slots having a series of shoulders, the last named end of the band outwardly of the slot thereof being provided with an opening for the passage of a lever to engage said shoulders, the slot of the last named end of the band having a cove in its side wall providing clearance for the passage of said shoulders.

In testimony whereof I hereunto affix my signature.

SAMUEL C. LAVENDER.