F. W. ROBERTSHAW.
Hose-Band.

No. 210,560. Patented Dec. 3, 1878.

Fig. 1.

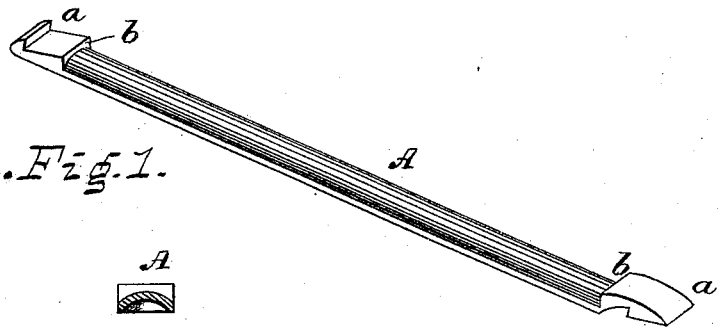



Fig. 2.

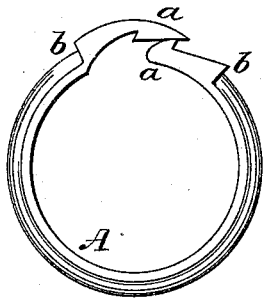
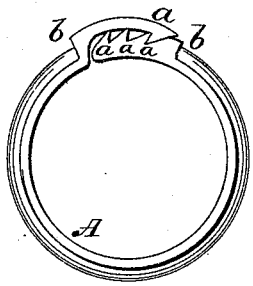



Fig. 4.



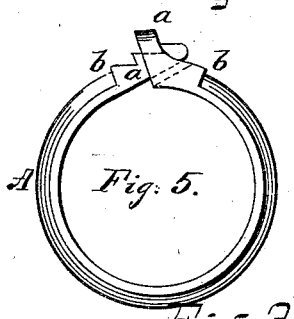
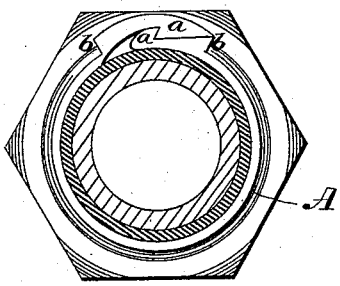




Fig. 5.

Fig. 3.

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# UNITED STATES PATENT OFFICE.

FREDERICK W. ROBERTSHAW, OF PITTSBURG, PENNSYLVANIA.

## IMPROVEMENT IN HOSE-BANDS.

Specification forming part of Letters Patent No. **210,560**, dated December 3, 1878; application filed August 23, 1878.

*To all whom it may concern:*

Be it known that I, FREDERICK W. ROBERTSHAW, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Hose-Bands; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification, in which—

Figure 1 is a view of the blank; Fig. 2, a view of band ready for use. Fig. 3 shows it in position on the hose. Figs. 4 and 5 are modifications.

This invention relates to hose-bands, or devices for securing rubber or other hose to the coupling or ferrule; and consists in the peculiar form and construction as hereinafter fully described.

I cast, in brass or other suitable material, a band, A, as in Fig. 1, having the interlocking catches *a* at its respective ends, and behind these the projecting shoulders *b*. The ends are correspondingly beveled, as shown. The band A is then bent round into circular form, as seen in Fig. 2, in such manner that the shoulders *b* are on the outside. In this form it is slipped over the end of the hose, the ferrule or coupling inserted, and then the band is placed with the shoulders *b* between the jaws of a vise or strong pliers, and compressed till the catches *a* spring into engagement with each other. The hose will now be found to be firmly attached to the coupling.

To make the compression more effectual for griping purposes, I make the band concave longitudinally, or corrugated, so that the edges or ribs so formed will strike into the hose and compress it into the inequalities of the coupling-ferrule. For such purpose it may have one or more ribs or flanges formed on its inner surface.

Thus constructed, I have a cheap and easily-made hose-band, and one which can be attached without the use of special tools, since it can be fastened by any vise or strong pliers—tools which are always at hand.

To detach is just as easy, requiring simply the insertion of a knife-blade or similar tool, which separates the ends till the catches disengage, when the combined spring of the metal and hose causes them to fly apart for withdrawal. The same band may be used over and over without impairment of its usefulness. No riveting, bending, or upsetting being required in its application, it is very convenient, and its construction as simple as possible.

To prevent liability to being jarred or knocked out of engagement, I prefer to make the abutting faces of catches *a* inclined, as shown.

A modification for the same purpose, and also for the purpose of fitting different sizes of hose, is shown by Fig. 4, one end having two or more catches, *a*, and the other end bent to give room for adjustment. In this, if the first catch does not sufficiently compress the hose, the band may be squeezed till the second or third catch engages.

Another modification, which I consider especially fitted for the hose of railway-brakes, and such others as are subject to much jarring and jolting, is shown in Fig. 5, in which all the parts are as before, except that one end is perforated, and the other, passing through its catches, engages with the edge of the slot or hole in the other. No amount of rough usage will dislodge it when so constructed.

What I claim as my invention is—

1. The metallic hose-band A, having the bevel-faced interlocking catches *a a* on either end, substantially as shown and described.

2. The hose-band A, having one end formed with two or more undercut catches, *a*, and the other end slotted for its passage, and having the forward edge of the slot acute, substantially as described.

3. The hose-band A, having interlocking ends and one or more compression-ridges formed on its inner face, substantially as shown.

In testimony that I claim the foregoing I have hereunto set my hand this 31st day of May, 1878.

FREDERICK W. ROBERTSHAW.

Witnesses:

THOS. J. MCTIGHE,

THOS. CONNOLLY.