

(No Model.)

W. C. SCHOOLEY.
TORPEDO CLIP FASTENING.

No. 480,520.

Patented Aug. 9, 1892.

Fig. 1

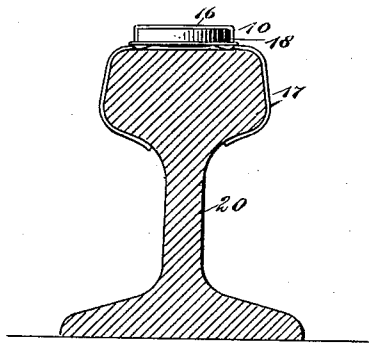


Fig. 2.

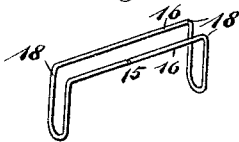


Fig. 3.

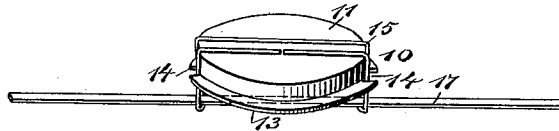


Fig. 4

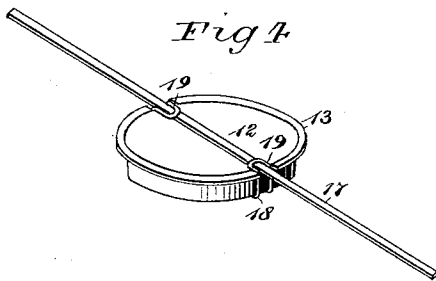
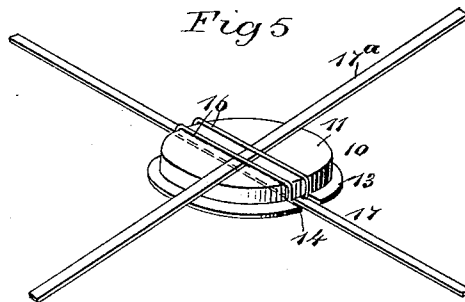


Fig. 5



WITNESSES:

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WILL C. SCHOOLEY, OF BRADDOCK, PENNSYLVANIA.

TORPEDO CLIP-FASTENING.

SPECIFICATION forming part of Letters Patent No. 480,520, dated August 9, 1892.

Application filed November 9, 1891. Serial No. 411,255. (No model.)

To all whom it may concern:

Be it known that I, WILL C. SCHOOLEY, of Braddock, in the county of Allegheny and State of Pennsylvania, have invented a new and Improved Torpedo Clip-Fastening, of which the following is a full, clear, and exact description.

My invention relates to improvements in that class of fastenings which are adapted to secure railway-torpedoes to the rails, so as to hold them in the path of the wheels of a train.

The object of my invention is to produce a cheap and simple fastening which may be quickly and easily applied to the ordinary torpedo, which will enable the torpedo to be quickly fastened to a rail in such a manner that it cannot accidentally get loose, and which will hold the parts of the torpedo together, so that the pieces will not fly when it explodes and so that by reason of the compression of the fastening a small torpedo will explode with as much noise as a larger one put together in the usual way.

To this end my invention consists in certain features of construction and combinations of parts, which will be hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures of reference indicate corresponding parts in all the views.

Figure 1 is a sectional view of a rail having a torpedo fastened thereon by means of my improved fastening. Fig. 2 is a detail perspective view of the clip-fastening which is secured to the torpedo. Fig. 3 is a perspective view of the torpedo provided with a clip-fastening and clip, the latter being shown in an extended position. Fig. 4 is a perspective view of an inverted torpedo provided with my improved fastening; and Fig. 5 is a modified form of the fastening, showing two clips, one being applied to the bottom of the torpedo and the other to the top.

The torpedo 10 is of the usual form, comprising an exterior case 11 and an interior case 12 which enters the exterior case from the bottom, and the outer case 11 has a flange 13 at its lower end, which enables it to rest upon the tread of a rail, and the flange is cut away on diametrically-opposite sides, as shown at 14, to enable the fastening 15 to be

easily applied to the torpedo and held so that it cannot slip. This fastening 15 is made in the form of an oblong loop, as shown in Fig. 2, and is preferably of wire. The clip-fastening is adapted to receive the clip 17, which extends through opposite ends of the loop or clip-fastening and which is adapted to fasten the torpedo to a rail. The clip-fastening 15, when made of wire, is formed of two members 16, which extend in a parallel position across the top of a torpedo, and the clip-fastening is bent or turned downward at the upper edges of the torpedo, as shown at 18, so as to extend downward through the slots 14 in the flange 13, and the lower ends of the clip-fastening when bent or turned in this manner, as shown in Fig. 3, are adapted to have the clip 17 thrust through them. The clip-fastenings are then bent or turned under upon the under portion 12 of the torpedo-case, as shown at 19 in Fig. 4, thus binding the clip 17 in place and also holding the two parts of the torpedo-case firmly together. The clip 17 is made, preferably, of lead; but it may be made of any flexible material; and when the torpedo is to be applied to a rail it is laid flatwise thereon and the clip 17 is bent or turned under the shoulders of the rail, as shown in Fig. 1, thus holding the torpedo in place.

If desired, two clips 17 and 17^a may be used, the clip 17 being extended across the bottom of the torpedo, as already described, and the clip 17^a being placed at right angles to the clip 17 and being made to extend across the top of the torpedo, beneath the clip-fastening 15. The torpedo may then be applied to the rail so that the clips will extend diagonally across the same, and the clips may then be bent or turned under the rail-shoulders in the manner described, and they will hold the torpedo so firmly in place that it cannot by any possibility become accidentally loosened.

The two parts of the torpedo-case when fastened together in the usual way will fly apart when the torpedo is exploded, and consequently it takes a comparatively large charge to make a sufficient noise; but by holding them together with the clip-fastening in the manner described a much smaller charge may be used and also a smaller charge, as the two parts will be held so firmly together that there will be no chance for them to expand

until actually blown apart by the force of the charge, and as a result a comparatively small charge will make a very loud report. It will be seen that by constructing the fastening in this way the torpedo to be used in connection with it may be very cheaply made.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

- 10 1. A torpedo-fastening comprising a clip-fastening formed of an oblong wire loop adapted at its ends to be bent downward at opposite sides of the torpedo-case and a flexible clip held in the clip-fastening and adapted
15 to be doubled upon a rail, substantially as described.

2. The combination, with a torpedo, of a flexible clip-fastening adapted to extend across one part of the torpedo and be bent or turned over the opposite part and a flexible clip held in the clip-fastening, substantially as described.

3. The combination, with the torpedo having slots in opposite sides of its case, of a flexible clip-fastening adapted to be bent or turned around the torpedo and through the slots and a flexible clip held by the clip-fastening, substantially as described.

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Witnesses:

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