

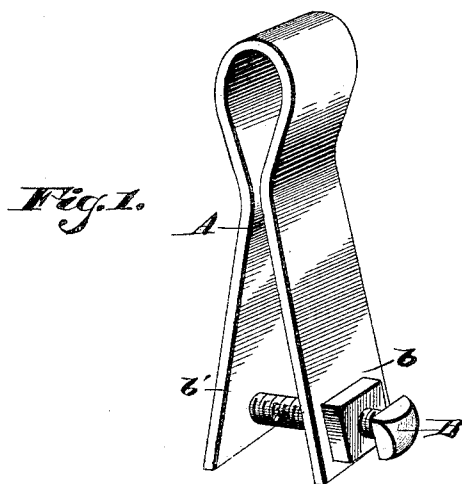
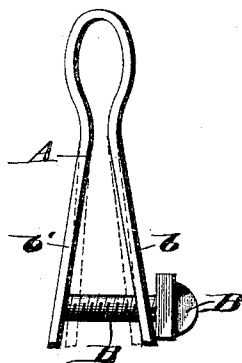
(No Model.)

F. P. STILES.

ANTI RATTLER FOR THILL COUPLINGS.

No. 399,447.

Patented Mar. 12, 1889.



WITNESSES,

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UNITED STATES PATENT OFFICE.

FRED PHELPS STILES, OF SPARTA, WISCONSIN.

ANTI-RATTLER FOR THILL-COUPPLINGS.

SPECIFICATION forming part of Letters Patent No. 399,447, dated March 12, 1889.

Application filed November 8, 1888. Serial No. 290,301. (No model.)

To all whom it may concern:

Be it known that I, FRED PHELPS STILES, a citizen of the United States, residing at Sparta, in the county of Monroe and State of Wisconsin, have invented certain new and useful Improvements in Anti-Rattlers; and I do 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 appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to anti-rattlers for vehicles that are provided with thills or poles, and aims to contrive a simple device for taking up the wear in the thill or pole coupling and preventing any lost motion which produces the disagreeable noise.

The improvement consists in a strip of untempered metal, preferably steel, bent approximately in the form of a U, and having a set-screw screwed through one limb of the device and adapted to bear against the other limb to force the two limbs apart the proper distance. The set-screw is arranged near the divided or open end of the device for two reasons; first, less pressure is required at this point to separate the said limbs, and, second, the set-screw can be reached and turned without the necessity of removing the device.

In the drawings, Figure 1 is a perspective view of an anti-rattler embodying my invention; Fig. 2, a side view showing the limbs of the device separated by dotted lines.

The device is composed of a strip, A, which is bent on itself about midway of its ends into

approximately the U shape shown. The set-screw B passes through the limb *b* of the device, and its inner end is adapted to bear on the limb *b'*, to force the two limbs *b* and *b'* apart at their free ends.

The device is designed to be placed between the rear end of the thill or pole iron and the rear wall of the axle-slip, the closed end being up and the free end pointing down. When the coupling becomes worn, the set-screw B is turned in to separate the limbs *b* and *b'* and take up the wear. A jam-nut may be provided, to prevent the screw B from turning back.

Having thus described my invention, what I claim, and desire to secure by Letter Patent, is—

1. The herein-described anti-rattler, composed of the strip bent in an inverted-U shape and having a set-screw passed through one of its limbs and adapted to bear on its other limb to force the two limbs apart to take up wear, substantially as described.

2. The hereinbefore shown and described anti-rattler, composed of an untempered strip of metal bent to an inverted-U shape, and the set-screw arranged at the separated ends of the limbs passing through one of the said limbs and adapted to bear on the other limb, to force the two limbs apart to take up wear, substantially as described.

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

FRED PHELPS STILES.

Witnesses:

W. M. GRAHAM,
H. H. L. CHILD.