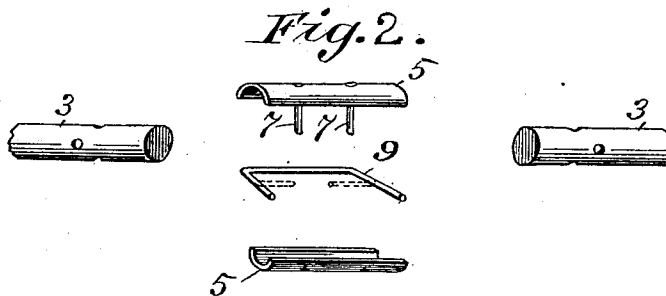
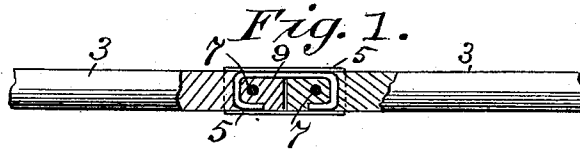


(No Model.)

G. H. AVERY.
BELT FASTENER.

No. 487,691.

Patented Dec. 6, 1892.



Witnesses:
J. D. Garfield
H. J. Clemmons.

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UNITED STATES PATENT OFFICE.

GEORGE H. AVERY, OF EASTHAMPTON, ASSIGNOR OF ONE-HALF TO THE
STANDARD WHIP COMPANY, OF WESTFIELD, MASSACHUSETTS.

BELT-FASTENER.

SPECIFICATION forming part of Letters Patent No. 487,691, dated December 6, 1892.

Application filed May 9, 1892. Serial No. 432,328. (No model.)

To all whom it may concern:

Be it known that I, GEORGE H. AVERY, a citizen of the United States, residing at Easthampton, in the county of Hampshire and State of Massachusetts, have invented new and useful Improvements in Devices for Unit-
ing the Ends of Round Leather Bands, of which the following is a specification.

This invention relates to band-uniting devices, and particularly to improved means for uniting the ends of round leather bands; and the invention consists in the peculiar combination and arrangement of said end-uniting devices, all as hereinafter described, and more particularly pointed out in the claim.

In the accompanying drawings, which serve to illustrate my invention, Figure 1 is a side view of portions of a round leather band having its ends united by a device embodying my improvements, the joined ends of the band and the uniting device being shown partly in section; and Fig. 2 illustrates in perspective views two ends of a band and detail parts of end-uniting devices hereinafter fully described.

In the drawings, 3 3 indicate the ends of round leather bands.

5 5 indicate two clamping-shells, each being perforated to allow of passing pins there-
through. 7 7 indicate said pins, and 9 indicates a double hook. This hook 9 is formed of a piece of wire or the like bent at its ends at right angles to form arms, as clearly shown, which arms are passed through the respective
ends of the band and clinched or bent over, as seen in Fig. 1 in full lines and in Fig. 2 in dotted lines. The said clamping-shells 5 are made of suitable sheet metal, preferably of brass or steel, and each is perforated, as
shown, to receive therethrough two of said pins 7 7. Said shells are also each made semi-circular in cross-section, whereby they are conformed to the rounded surface of said band. Said pins 5 are made from steel or
brass wire and are passed through the said shells and band ends, and are there secured by riveting their extremities against the outer

surfaces of the two shells, as shown in Fig. 1, or soldering or screwing them to said shells. The arrangement of said hook 9, as shown in Fig. 1, is preferable for the reason that the hooked ends thereof engage with the band beyond the riveted pins 7, thereby bringing the said pins within the curved ends of said hooks. Moreover, the arrangement of the pins 7 at right angles to the arms of the hook 9 increases the strength of the fastening to a marked degree, as will be readily understood, since the strain-sustaining surface of the fastening is doubled. If the pins were arranged in the same plane with the ends of the hook, it is evident that the fastening would be comparatively weakened. Said clamping-shells are clearly illustrated in Fig. 2, and in this figure is shown the form of the hook-wire before it is inserted into the said ends.

Leather bands having their ends united, as herein described, provide efficient running-bands for spindles and similar light machinery and signal-cords for railway-cars much superior to those made of fibrous material, and for these purposes the within-described end-uniting devices are very strong and durable and do not form any inconvenient projection at the joint.

What I claim as my invention is—

In a fastening for round leather bands, the combination, with the adjoining ends of the band, of a hook consisting of a length of wire having its ends bent and passed through the adjoining ends of the band and clinched therein, two metallic clamping-shells of semi-circular cross-section applied over the ends of the band on opposite sides thereof, said shells inclosing said hook, and two metallic pins secured at their ends to the respective shells, one of said pins passing through each end of the band inside the hook and at right angles to the bent ends thereof, substantially as set forth.

GEORGE H. AVERY.

Witnesses:

H. A. CHAPIN,
W. S. BELLOWS.