A. G. SANDMAN.

ART OF MANUFACTURING POCKET STRAPS.

APPLICATION FILED APR. 26, 1913.

1,068,171. Patented July 22, 1913.

FIG. 1.

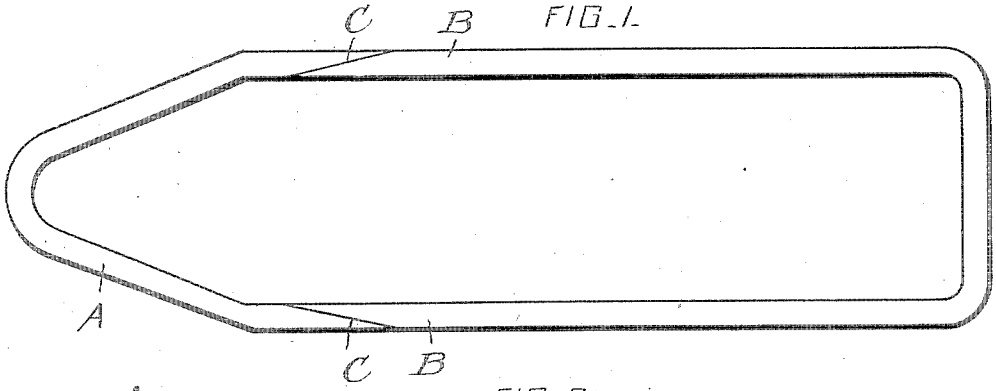


FIG. 2.

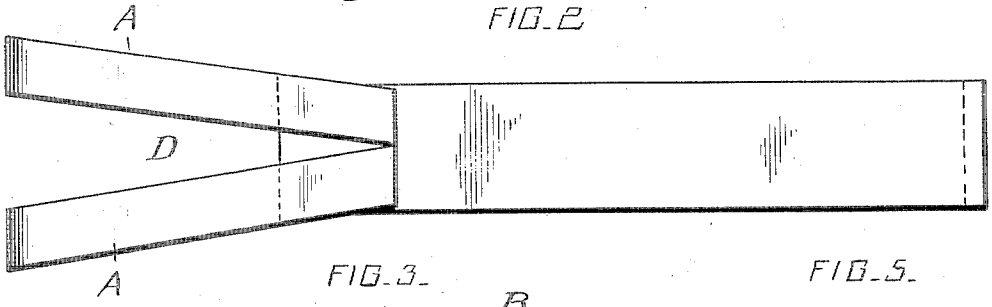


FIG. 3.

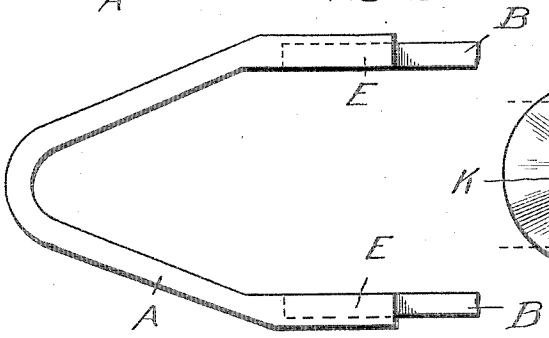


FIG. 5.

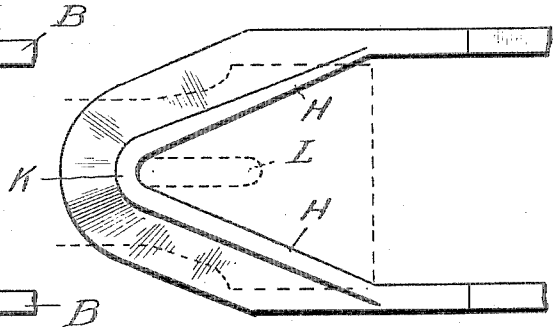


FIG. 4.

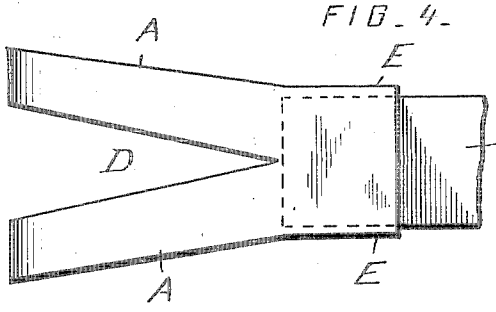
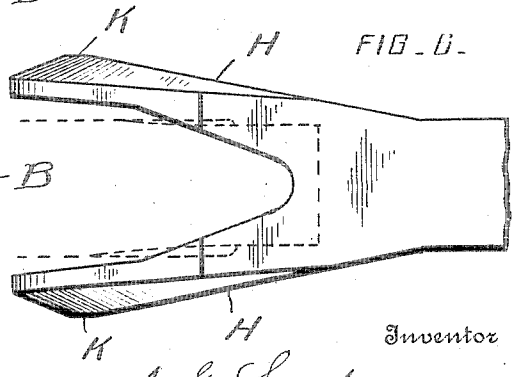


FIG. 6.



Inventor

A. G. Sandman,

By D. E. Stebbins,

Attorney

Witnesses:

W. F. Doyle.

C. A. Gerstorff.

UNITED STATES PATENT OFFICE.

AUGUST G. SANDMAN, OF BALTIMORE, MARYLAND.

ART OF MANUFACTURING POCKET-STRAPS.

1,068,171. Specification of Letters Patent. Patented July 22, 1913.

Application filed April 26, 1913. Serial No. 763,809.

To all whom it may concern:

Be it known that I, AUGUST G. SANDMAN, a citizen of the United States, residing at Baltimore city, State of Maryland, have invented certain new and useful Improvements in the Art of Manufacturing Pocket-Straps, of which the following is a specification.

To facilitate the removal of a draw bar and coupler head from an assembled draft and buffing gear and the substitution of another, the end of the draw bar is slotted and a removable key is inserted within the slot, the projecting ends of which key are adapted to engage arms at the front ends of a pocket strap or yoke. As the arms of the yoke are located at the sides of the draw bar and the space between the draw bar and draft beams is limited, it is desirable to secure the greatest strength possible with the least quantity or bulk of metal, consequently the pocket strap should be of malleable or wrought metal.

The object of my invention is the production of a strap or yoke by bending a malleable metallic bar to substantially a U shape, welding arms to the free ends thereof, and forging the same to the desired shape, whereby the greatest strength with the least quantity of metal will be secured.

The invention consists in the art or method of procedure herein set forth and claimed.

The accompanying drawing illustrates two blanks, or partially prepared pieces of metal, requiring further manipulation to transform the same into a finished article constituting a pocket strap; and a finished head of a strap as a complete article ready for use.

Figures 1 and 2 are side and top plan views of one form of blank. Figs. 3 and 4 are side and top plan views of the heads of another form of blank. Figs. 5 and 6 are side and top plan views of the head of a completed pocket strap or yoke, the position of the rear slotted end of a draw bar between the arms of the yoke and also a key being indicated in dotted lines.

A bar of wrought metal, for example, 5″ or 6″ wide and 1″ or more thick and of the requisite length, is bent to a U shape in forming the bodies of the blanks shown by Figs. 1, 2, 3 and 4. In Figs. 1 and 2 two pieces of malleable metal A A are each bent to a V or U shape and the free ends welded to the free ends B B of the main body portion of strap, the said pieces A A constituting arms. The ends of the body of the strap may be tapered or beveled and the ends of the pieces or arms A A also be tapered or beveled, as shown at C, so that, when overlapped, the thickness of metal at the points of welding will be substantially of the same thickness as the body of the strap. The arms are preferably disposed at angles to each other, forming a slot D, as shown. In Figs. 3 and 4 the arms A A are formed of a single piece of malleable metal bent to a V or U shape and slitted or slotted intermediate the ends, and preferably the arms slightly spread apart prior to welding the free ends of the same upon the ends B B of the body of the strap. To provide a seat for the free ends B B of the body of the strap, flanges E E may be formed upon the free ends of the malleable metal bar, as shown, and the flanges welded to the edges of the ends B B at the same time the other surfaces are welded together. To produce the completed pocket strap or yoke further manipulation is necessary and it consists in forging the end of either one of the blanks having the arms between suitable dies (not shown), spreading the arms apart far enough to receive the rear end of a draw bar, fashioning the flanges H H on the arms, and providing an increased thickness of metal at the points K against which the ends of the key L bear in the act of drawing.

From the foregoing description taken in connection with the drawing it becomes clear that I have devised a simple and comparatively cheap method of manufacturing malleable metal yokes or pocket straps of maximum strength with the least quantity of metal, and which have arms that can receive the rear end of a draw bar and occupy the limited space between the draft beams of a car floor frame, the said arms, moreover, being strong enough to withstand the strains of severe service without breaking.

What I claim is:

1. The art of manufacturing a pocket strap or yoke consisting in making a blank by bending a bar of metal to a U shape to form the body portion of the strap, forming arms of a V or U shape, and welding the free ends thereof upon the free ends of the body portion; and finally forging flanges upon the arms and spreading the same apart

far enough to receive the rear end of a draw bar between them.

2. The art of manufacturing a pocket strap or yoke consisting in making a blank by bending a bar of metal to a U shape to form the body portion of the strap, slitting a bar of metal intermediate its ends and bending the same to a V or U shape, and welding the free ends of the bar to the free ends of the body portion; and finally spreading the metal each side of the slit and forging the same into arms.

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

AUGUST G. SANDMAN.

Witnesses:
NICHOLAS C. THALHEIMER,
ARTHUR B. SEVERN.