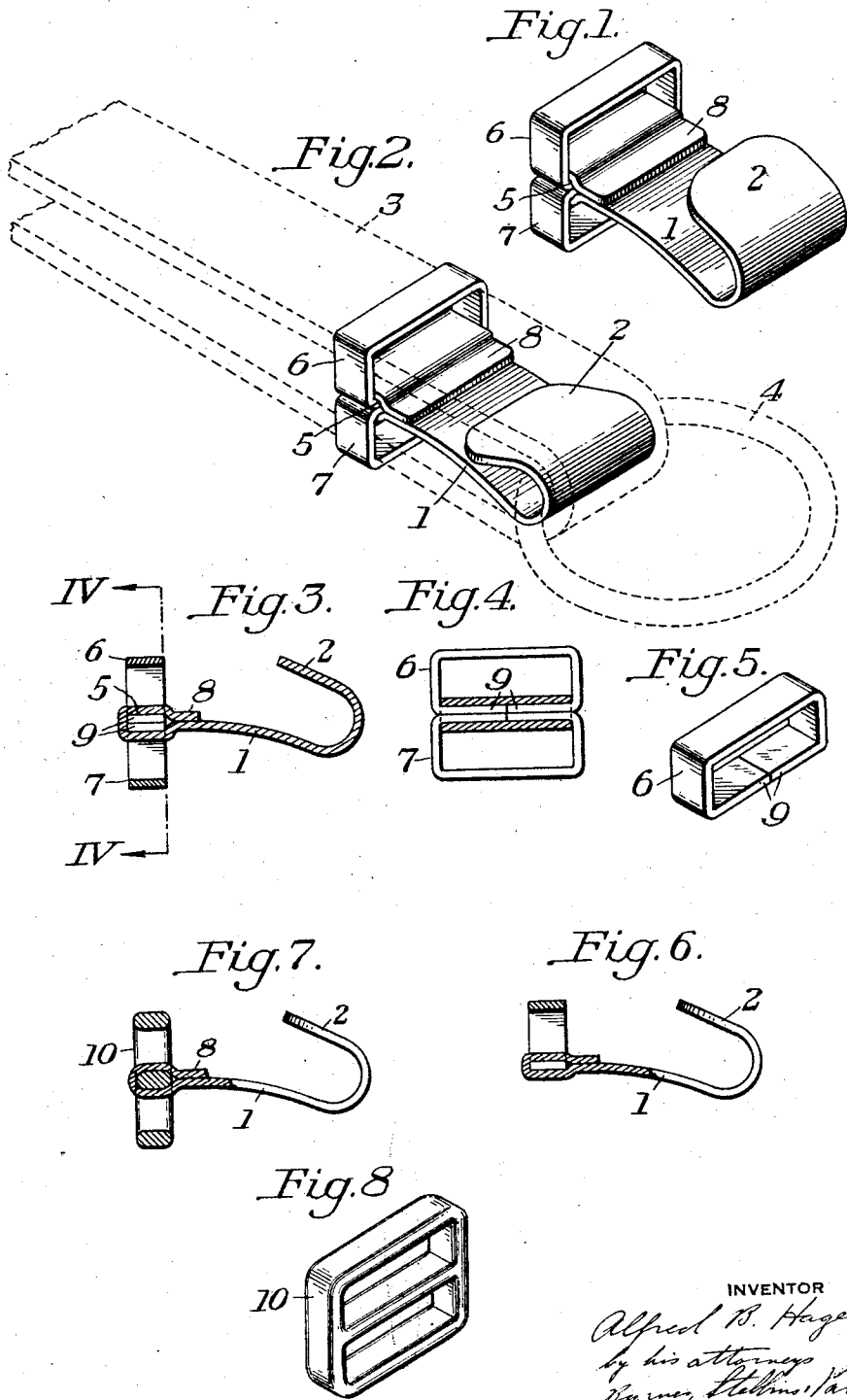


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WEAR PLATE FOR STRAPS
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UNITED STATES PATENT OFFICE.

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WEAR PLATE FOR STRAPS.

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The present invention relates to wear plates for straps, and more especially to what is known in the harness industry as a harness hook, which is adapted to be received in the bight of a leather strap to receive a ring and shield the strap from wear.

The invention relates particularly to the formation and attachment of a strap-receiving slide loop or loops to the wear plate or hook.

In the drawings:

Figure 1 is a perspective view of a harness wear plate or hook embodying my invention;

Figure 2 is a perspective view of the same harness hook shown bent over to hold a ring, the harness strap and ring being indicated in dotted lines;

Figure 3 is a longitudinal section through the wear plate;

Figure 4 is a section along the line IV—IV of Figure 3;

Figure 5 is a detail perspective view showing one of the loops detached;

Figure 6 is a view partly in section showing a modification;

Figure 7 is another view partly in section showing a modification; and

Figure 8 is a perspective view of the loops used in Figure 7.

Referring to the drawings, reference numeral 1 indicates a metal wear plate having a wear hook 2, curved to fit within the bight of a flexible leather strap 3, indicated in dotted lines. The hook is adapted to receive a ring 4. When the wear plate is assembled in a harness strap, the hook portion 2 is usually bent over to embrace the ring 4, as shown in Figure 2. The hook takes the wear of the ring and thus prevents the bight of the strap from becoming worn by contact with the metal ring 4.

The ring 4 is shown as a round ring, but may, of course, be in any form, such as a D-shaped ring. The wear plate 1 has its other end bent over to form a loop-receiving eye 5, in which is received the slide loops 6 and 7. As shown in the drawings, the end of the wear plate is bent back against itself at 8, thus securely enclosing and concealing the ends of the loops.

As shown particularly in Figures 4 and 5, the loops 6 and 7 are made from metal strips which are bent into rectangular form. The free ends 9 of these strips, as above noted,

are held and concealed within the eye formed by the bent-over end of the wear plate.

In the form shown in Figures 1, 2, 3 and 4, two loops are employed to hold the strap at each side of the hook. However, a single loop may be employed, if desired, as shown in Figure 6. The loop may be placed on the side of the wear plate from which the hook projects, as shown in Figure 6, or on the opposite side of the wear plate as desired.

While it is preferred to make the loops from metal strips formed as shown in Figures 1 to 6, the loops may be formed of a single malleable casting 10, as shown in Figures 7 and 8, the center bar of which will be gripped within the bent-over end of the wear plate. In the claims, the word "periphery" is used in a generic sense to include either the periphery of a loop or loops as shown in Figures 1 to 6, inclusive, or the center bar of an element such as the casting 10 shown in Figures 7 and 8.

The invention is particularly applicable for the wear plates or hooks for harnesses in which a metal ring is to be held in the bight of a leather strap. The wear plate or hook may, however, be used for other purposes and with flexible straps of material other than leather, which it is desired to protect from the wear of a metal ring or some part extending through the bight in the strap.

While I have specifically illustrated and described the preferred embodiment of my invention, it is to be understood that the invention is not so limited, but may be otherwise embodied within the scope of the following claims.

I claim:

1. A wear plate curved to fit within the bight of a flexible strap and having a loop-receiving eye, and a strap-receiving loop, a portion of the periphery of which is held within the eye of the wear plate.

2. A wear plate having a hooked end adapted to fit within the bight of a flexible strap and having its opposite end bent over to form a loop-receiving eye, and a strap-receiving loop, a portion of the periphery of which is held rigidly within the eye of the wear plate.

3. A wear plate having a hooked end adapted to fit within the bight of a flexible strap and having its other end bent over to

form a loop-receiving eye, and a strap-receiving loop formed of a bent strip of metal having its free ends held within and concealed by the eye of the wear plate.

- 5 4. A wear plate curved to fit within the bight of a flexible strap and having a bent-over portion forming a loop-receiving eye, and a metal strap-receiving loop, a portion of the periphery of which is clamped with-
10 in the bent-over portion of the wear plate.

5. A wear plate having a hooked end adapted to fit within the bight of a flexible strap and having its other end bent over to form a loop-receiving eye, and oppositely extending metal loops, each formed of a
15 metal strip, having their free ends held within and concealed by the eye of the wear plate.

In testimony whereof I have hereunto set my hand.

ALFRED B. HAGELIN.