No. 884,207. PATENTED APR. 7, 1908.

J. REICHERT.

HARNESS BUCKLE.

APPLICATION FILED MAR. 8, 1905.

Fig. 1.

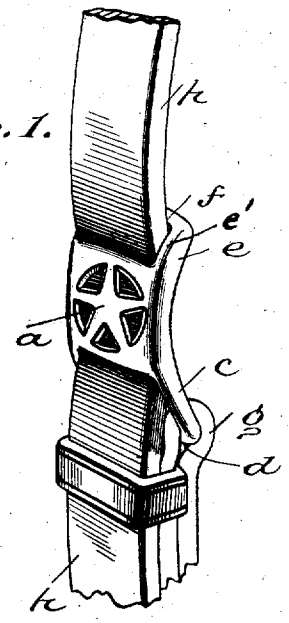


Fig. 2.

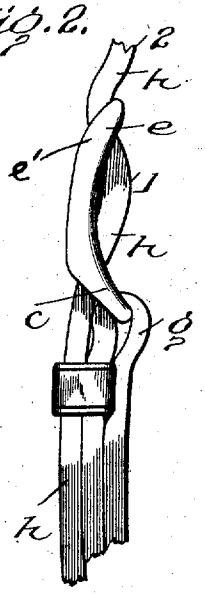


Fig. 3.

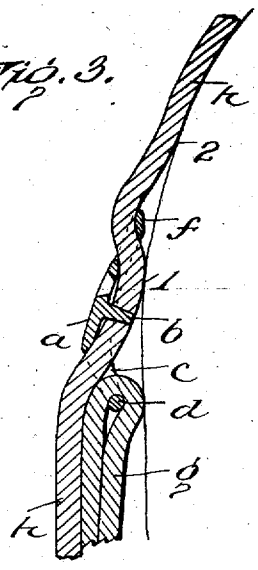
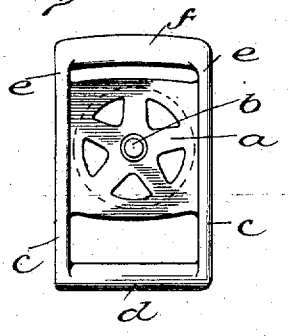


Fig. 4.



Witnesses

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HARNESS-BUCKLE.

No. 884,207. Specification of Letters Patent. Patented April 7, 1908.

Application filed March 8, 1905. Serial No. 249,084.

To all whom it may concern:

Be it known that I, JOHN REICHERT, a citizen of the United States, residing at Racine, county of Racine, Wisconsin, have invented certain new and useful Improvements in Harness-Buckles; and I do hereby 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.

This invention relates to certain improvements in harness buckles, and more particularly relates to what are sometimes termed hip strap buckles.

An object of the invention is to provide an improved and exceedingly simple hip strap buckle formed in one piece with a shield arranged to prevent the tail hairs of the animal catching between the metal bars of the buckle and the straps therein and particularly to so form the buckle as to press in or shape the straps in the buckle to form bearing points engaging the animal and holding the buckle itself from rubbing contact with the animal.

The invention consists in certain novel features of construction and in arrangements of parts as more fully and particularly pointed out and specified hereinafter.

Referring to the accompanying drawings:—Figure 1, is a perspective view of the buckle showing portions of the straps therein. Fig. 2, is an edge elevation of the buckle and straps shown in Fig. 1. Fig. 3, is a longitudinal section of the buckle showing the straps therein. Fig. 4, is a plan view of the buckle detached.

The buckle shown is formed in one piece of metal and is longitudinally elongated and in effect consists of the upper guide and deflecting loop, the central shield or guard plate *a*, provided with the rigid inwardly projecting intermediate pin or stud *b*, and the lower guide and attaching loop.

The intermediate shield or guard plate *a*, is preferably flat at its inner face and extends transversely across the center of the buckle. The upper and lower transverse edges of this plate are preferably approximately parallel, and the outer face of the plate is preferably beveled or rounded at said upper and lower edges for the purpose of deflecting the tail hairs of the animal from the buckle and to aid in preventing said hairs catching between said plate and the outer face or surface of the strap passing through the buckle and across the inner face of the plate. The pin or stud *b*, preferably extends perpendicularly from the central portion of the inner face of the plate, and said stud or pin is preferably straight, that is, is not hook shaped or inclined with respect to the inner face of the plate, although it may be slightly tapered to facilitate the withdrawal of the buckle from the sand after casting.

The lower loop consists of downward extensions *c*, of the two parallel side bars of the buckle and at their lower ends said sides *c*, are connected by the straight cross bar *d*. This lower loop extends downwardly and inwardly from the guard plate at an angle so that the lower cross bar thereof is located in a vertical plane entirely to one side of the vertical plane including the guard plate. The upper ends of the side bars of said lower loop extend from the lower outer corners of the guard plate inwardly and downwardly preferably so as not to project beyond the outer face of the guard plate.

The upper loop is composed of the two parallel upward elongations *e*, of the buckle side bars, connected at their upper ends by the flat cross bar *f*. The loop last referred to extends upwardly from the upper end of the said guard plate and the side bars *e*, of said loop extend upwardly from the upper corners of said plate and are deflected inwardly from the vertical plane of the inner face of the guard plate, while the outer longitudinal edges *e'* of the said side bar *e*, are rounded outwardly between their ends to form guards to deflect the tail hairs outwardly from the outer surface of the strap passing through the said upper loop and prevent the hairs catching between the upper edge of said guard plate and said strap. The said flat cross bar *f*, is at its inner surface, approximately flush with the inner edges of the said bars, *e*, while the outer surface of said cross bar *f*, is depressed below the outer edges *e'* of the side bars *e*, so that the strap fits between the side bars *e*, and passes upwardly across the outer face of the flat upper cross bar *f*. The outer face of the flat upper cross bar *f*, is preferably transversely inclined inwardly and downwardly about as shown from its upper transverse edge.

The buckle is so formed that when applied and in use the lower loop extends downwardly and inwardly at an angle to the guard plate and the guard plate extends upwardly

and inwardly from and at an angle to the lower loop, and the upper loop extends upwardly and at an angle to the guard plate.

In use the strap *g*, is looped around and secured on and depends from the cross bar of the lower loop. The strap *h*, extends upwardly over the looped end of the strap *g*, and through the lower loop and across the under face of the guard plate and upwardly and outwardly through the upper loop and across the outer face of the flat cross bar thereof. The said strap *h*, is formed with perforations to receive the stud or pin *d*, as the strap is adjusted. The angle of the guard plate is such that the stud or pin thereof extends inwardly and downwardly at a slight angle and hence effectively holds the strap on the pin notwithstanding the fact that a straight pin is employed. The angular arrangements of the lower loop, the guard plate and the upper flat cross bar are such that the strap is so bent as to bulge inwardly above and below the upper cross bar to form bearing points, marked 1, 2, which engage the animal and hold the upper cross bar from injurious rubbing contact with the animal and at the same time tend to hold the strap on the stud or pin which forms the tongue of the buckle so that a comparatively short stud can be employed which is not liable to break and which cannot possibly engage or rub against the hide of the animal.

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

As an article of manufacture, a buckle consisting of the intermediate guard plate provided with a short straight stud projecting inwardly about from the central portion of its inner face, a lower loop extending downwardly and inwardly from said plate and at an angle thereto, and an upper loop projecting upwardly from and at an angle to said plate and having the outer longitudinal edges of its side bars curved upwardly and inwardly from said plate and having a top flat cross bar, with an inclined outer face arranged with respect to the upper edge of said plate to coöperate therewith in deflecting a strap passing through the buckle to hold said flat cross bar and the side bars of the buckle from engagement with the animal, substantially as described and shown.

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

JOHN REICHERT.

Witnesses:
SOLON C. KEMON,
HUBERT E. PECK.