

UNITED STATES PATENT OFFICE.

JOHN D. ELLISON, OF RIVES, TENNESSEE, ASSIGNOR OF ONE-THIRD TO WILLIAM M. TURNER AND ONE-THIRD TO ANDREW J. HARPOLE, OF UNION CITY, TENNESSEE.

HARNESS-FASTENER.

966,322.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOHN D. ELLISON, a citizen of the United States, residing at Rives, in the county of Obion and State of Tennessee, have invented certain new and useful Improvements in Harness-Fasteners; 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.

My invention relates to harness fasteners for securing various parts of a harness together.

It has for its object to secure certain advantages over the old way of connecting a holding device, by which is meant either a buckle or clasp, to the straps of the harness.

Among the advantages are the saving of time and expense in making the harness, the elimination of all sewing which tends to weaken the leathers, the absence of punctures or openings in the leather or fastener into which water can enter, the readiness with which all the fastenings can be removed leaving all of the parts of the leather accessible to be oiled after which said fastenings may be as quickly and readily replaced, and the reduction of the thickness of the leather required in the old way of sewing on buckles, etc., without impairing the strength of the fastener.

The invention consists in the features of construction and combinations of parts hereinafter described and specified in the claims.

The accompanying drawing illustrating the preferred embodiments of my invention: Figure 1 is a plan view of a portion of the harness on which two forms of my fastener are used. Fig. 2 is an edge view thereof. Fig. 3 is a sectional view on the line $x-x$ of Fig. 1, and Fig. 4 is a detailed view of the second form of band.

The embodiments of the invention herein shown are for securing a clasp and a buckle to the respective straps. The first form of band 1 used in connection with the clasp 2 is provided with a tapered opening there-through and has a single integral pin 3 extending inwardly from the middle of its lower wall. The strap 4 is doubled upon itself with its folds arranged in said opening in the band and its looped portion extending beyond the wider extremity of said

opening. A separate strip 5, preferably of leather or other compressible material, is folded inside of the looped portion of the strap. The extremities of said strip are tapered and extend into the band between the folds of the strap whereby they constitute a wedge which causes the strap to be firmly clamped in said band. The clasp is connected to the strap by having the end cross bar 6 of its eye arranged in the looped portion of the strap interiorly of the separate strip. By reason of this arrangement, the strip takes the wear off of the strap. When said strap is worn out, it may be readily removed and another substituted without necessitating the shortening of the strap or the use of an entirely new one which would be required if the wear coming directly upon the looped portion of the strap should cut through it.

The under fold of the strap is provided with a hole 7 which is engaged by the pin on the band. Said pin is substantially equal in length to the thickness of said strap so that it passes through the lower fold thereof but does not interfere with the adjustment or removal of the separate strip. It will be observed that by reason of the lower fold of the strap being secured to the band by means of the pin, strain upon the fastener will only cause the strap to be the more firmly wedged into said band.

The second or modified form of fastener is designed for holding a buckle 8. The band 9 in this form is made similarly to the band previously described except that it has two pins 10 which are spaced at equal intervals across the band and is provided with a loop 11 on its upper face to receive the end of the strap connected to the clasp and attached to the buckle. It will be understood, of course, that either one, two or any other suitable number of pins may be used on the band according to requirements. In this modified construction, a separate wedge 12 is placed between the folds of the strap within the band. This wedge is also preferably made of leather or other suitable compressible material and is tapered to conform to the taper of the opening through the band. The buckle is arranged in the looped portion of the strap which projects from the wider end of said opening. The portion of the buckle which passes through this loop comes in contact with the thick end

of the wedge and aids in forcing the latter into clamping position when strain is put upon the fastener.

A narrow band 14 may be used, where
 5 necessary, for holding the extremity of the under fold of the strap, as illustrated in connection with the first form of fastener. Said band is provided with a pin 15 depending from the upper interior wall
 10 thereof into engagement with a hole in the upper fold of the strap. This holds the band in proper position and prevents it sliding on the strap.

I claim:—

15 1. The combination, with a rigid band having a tapered opening through it and a pin projecting inwardly from one wall of said opening, of a strap doubled upon itself with its folds arranged in the opening in
 20 said band and a separate wedge disposed between the folds of said strap in said band, one fold of said strap having a hole therein engaged by the pin on the band while the other fold and the wedge are free to slide
 25 in the band under strain until they are firmly clamped within said band.

2. The combination, with a rigid band having a tapered opening therethrough, of
 30 a strap doubled upon itself with its folds arranged in the opening in said band and its looped portion extending beyond the wider extremity of said opening, a separate looped strip arranged within the looped portion of
 35 said strap with its ends tapered and constituting a wedge extending into the band,

and a holding device arranged in said looped extending portion of the strap interiorly of said looped strip whereby the latter serves as a reinforcement against wear
 40 of the holding device on the looped portion of the strap, as well as a wedge in said band.

3. The combination, with a rigid band having a tapered opening through it and a pin projecting inwardly from one wall of
 45 said opening, of a strap doubled upon itself with its folds arranged in the opening in said band and its looped portion extending beyond the wider extremity of said opening, a separate looped strip arranged within the
 50 looped portion of said strap with its ends tapered and constituting a wedge extending into the band, and a holding device arranged in said looped extending portion of the strap interiorly of said looped strip whereby the
 55 latter serves as a reinforcement against wear of the holding device on the looped portion of the strap, as well as a wedge in said band, one fold of said strap having a hole therein engaged by the pin on the band
 60 while the other fold and the wedge-shaped ends of said looped strip are adapted to slide freely in said band under strain until they are firmly clamped within said band.

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

JOHN D. ELLISON.

Witnesses:

HUNTER ELAM,
 J. A. PRIETO.