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G. WALKER.

MEANS FOR ATTACHING HARNESS TRIMMINGS.

APPLICATION FILED OCT. 30, 1905.

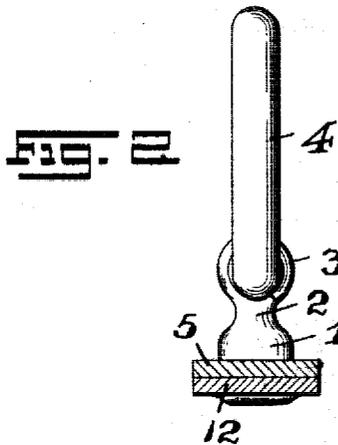
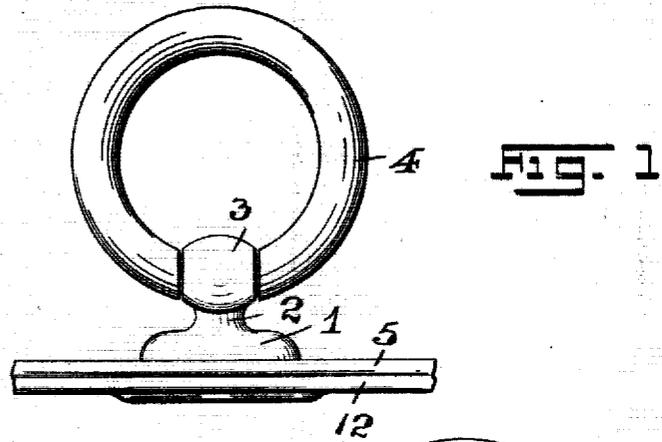


FIG. 3

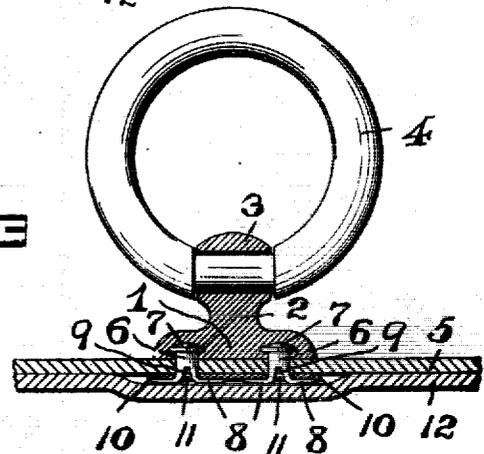
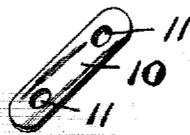
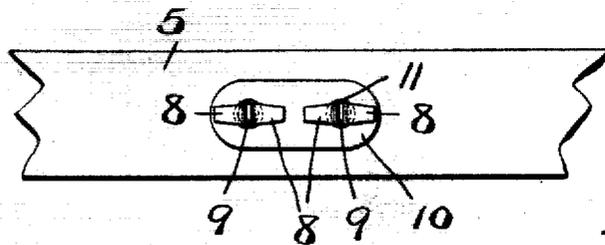


FIG. 4



WITNESSES:

*Geo. S. Richards*  
*Harry S. Davis*

FIG. 5

FIG. 6

INVENTOR:

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# UNITED STATES PATENT OFFICE.

GEORGE WALKER, OF NEWARK, NEW JERSEY, ASSIGNOR TO RUBBER AND CELLULOID HARNESS TRIMMING CO., A CORPORATION OF NEW JERSEY.

## MEANS FOR ATTACHING HARNESS-TRIMMINGS.

No. 853,565.

Specification of Letters Patent.

Patented May 14, 1907.

Application filed October 30, 1905. Serial No. 284,967.

*To all whom it may concern:*

Be it known that I, GEORGE WALKER, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Means for Attaching Harness-Trimnings; 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, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

My present invention relates, generally, to improvements in harness-attachments or trimmings; and, this invention has reference, more particularly, to a novel means for positively and readily securing a metal harness trimming or fixture, such as a swivel-terret, or the like, in its operative position upon a portion of a harness, all with a view of providing a simple and cheap fastening means, as hereinafter more fully set forth, to prevent any possible turning or oscillatory movements of the base of the terret or the like upon the harness, and to prevent the bulging of the leather layer or fold against the riveted-over fastening post, as heretofore; and, while producing a neat finish of the layer or fold, as hereinafter set forth, also greatly facilitating the stitching and reducing the cost of manufacture.

The principal object of the present invention therefore is to provide a simple method of fastening means for securing in position against any possible oscillation or wobbling motion the base of the fixture, such as a swivel-terret, or the like, such fastening means comprising a split or bifurcated rivet or pin having a portion of its shank united with the said base by being embedded in the said base during the casting operation, and said rivet or pin being made of a metal which will permit of producing a pair of thin, but resilient and strong holding fingers or prongs, which can be bent over against the back of a holding or retaining plate, and being very thin, will take up but very little space so as to avoid the usual bulge of the form of heavy post now ordinarily used, and producing a neat construc-

tion and one in which the stitching is greatly facilitated.

Other objects of this invention not at this time more particularly mentioned will be clearly understood from the following detailed description of this invention.

My present invention consists, therefore, in the novel attaching means for harness-trimmings, such as swivel-terrets, or the like, as well as in the novel construction of the terret hereinafter more fully set forth.

The invention consists, furthermore, in the novel arrangements and combinations of parts, as well as in the details of the construction of the same, all of which will be more fully described in the following specification, and then finally embodied in the clauses of the claim which are appended to and which form an essential part of this specification.

The invention is clearly illustrated in the accompanying drawings, in which:—

Figure 1 is a face view of a harness-terret embodying the principles of my present invention, and showing the same in its position upon a part of a harness; and Fig. 2 is an end view of the same. Fig. 3 is a longitudinal vertical section of the harness-terret, the ring and the fastening means being shown in elevation, said view also showing in section and arranged between the two layers of leather a holding or retaining plate, against the back of which the prongs of two fastening rivets or pins are bent; and Fig. 4 is a rear view of the said parts, with the back layer or fold omitted from said view, to clearly illustrate the arrangement of said holding or retaining plate and the prongs or fingers of the said fastening rivets or pins bent down upon the said plate. Fig. 5 is a perspective view of the said holding or retaining plate, and Fig. 6 is a similar view of one of the split or bifurcated rivets or pins.

Similar characters of reference are employed in the above stated views, to indicate corresponding parts.

In the present drawings, I have shown one form of harness-trimming or fixture, such as a swivel-terret, the same comprising a base 1, a shank or post 2, and an eye or loop 3 in which the terret-ring 4 is arranged in any usual manner. That the said fixture may be secured upon the face of a leather part or

strap 5 of the harness, such as a saddle, or the like, I use one or more rivets or pins 6, usually two of them, which are provided with suitable enlargements or heads 7, substantially as shown. During the process of casting the said metal base 1, and the parts connected therewith, the molten metal is flowed around the said enlargements or heads 7 and a part of the shank of each rivet or pin 6, so that each rivet or pin will become firmly embedded in the said metal base 1, against any displacement therefrom, with the free end-  
 5 portions of said rivets or pins extending from the lower face of said base. The said projecting portion of each rivet or pin is formed with two members or fingers 8 formed with a slot 9 between them which is preferably made A-shape, as shown, so that the inner surfaces of said members or fingers 8 taper, and may be made quite thin to enable them to be readily bent over without any danger of breaking, substantially as and for the purposes to be presently more fully described. This split or bifurcated portion of each rivet  
 15 or pin 6 is forced through the layer or strap 5, and through a hole or perforation 11 in a holding or retaining plate 10 made of metal, and the said prongs or fingers 8 then bent over and firmly driven against the back of the said plate 10, substantially as shown in Figs. 3 and 4 of the drawings. The said plate 10 and said prongs or fingers 8 are then covered over with the usual inner layer or fold 12 of the harness, which is secured to the  
 25 outer layer or strap 5 by means of the usual stitching, or otherwise.

From the foregoing description of my invention, it will be seen, that I have devised a simple and efficient means of attachment by means of which the usual single and bulky post is dispensed with. Furthermore, on account of the fact, that the rivets or pins are made from metal having great resiliency, it will be understood, that the said prongs or  
 40 fingers 8 may be made very thin, so as to take up but very little space upon the back of the plate 10, and still have great strength on account of the character of the metal of which the said rivets or pins are made. It will furthermore be seen, that on account of the arrangement of the two rivets, instead of the large single post heretofore used, there can be no oscillation of the body 1 upon the harness, when in constant use; and, furthermore, a fastening means is provided which can not be  
 55 pulled loose from the main body of the harness-trimming or fixture.

With the construction, as heretofore made,

the single post is made of the same metal as the body 1, usually brass, and being cast integral therewith, of course, has to be made quite thick in order to secure sufficient strength against breaking; and, even with such thickness of the post it very often happens that with the constant pulls and strains upon the harness and hence upon the trimmings, the posts will break off, and the fixture is either lost or has to be replaced with a new one. Now, with the forms of rivets or pins, as embodied in the present invention, these rivets or pins being made of a metal having great tensile strength, usually steel, the holding or fastening lugs 8 can not become broken, and a strong and positive securing means for attaching the harness-trimming or fixture upon the harness is the result. Also, with a thick single post, when the end of the said post is clenched over, a large head or bulge will be the result, and a neat finish of the inner layer or fold is often impossible. These objectionable features are all of them obviated with my novel arrangement of the thin prongs or fingers 8, and such arrangement and construction of the parts also facilitates the stitching of the leather parts of the harness about the retaining or holding plate, as will be clearly evident.

I claim—

In a harness trimming or fixture, the combination, with a leather-strap and its inner layer of a harness, of a harness fixture, such as a terret, comprising a metal base provided with an eye in which may be arranged a terret-ring, a pair of headed rivets having their heads embedded in said metal base, and the shanks of said rivets extending from the lower face of said base and through said leather-strap, a plate arranged between the said leather-strap and said inner layer, said plate being provided with a pair of perforations, and prongs on the shank of each rivet, said prongs extending through the perforations in said plate and being bent over and upon the face of said plate, so as to lie between said face of the plate and the inner face of said layer, substantially as and for the purposes set forth.

In testimony, that I claim the invention set forth above I have hereunto set my hand this 27th day of October, 1905.

GEORGE WALKER.

Witnesses:

FREDK. C. FRAENTZEL,  
 EDWARD G. ROBERTSON.

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