(No Model.)

H. HART.

HORSE COLLAR FASTENER.

No. 490,282. Patented Jan. 24, 1893.

Fig. II.

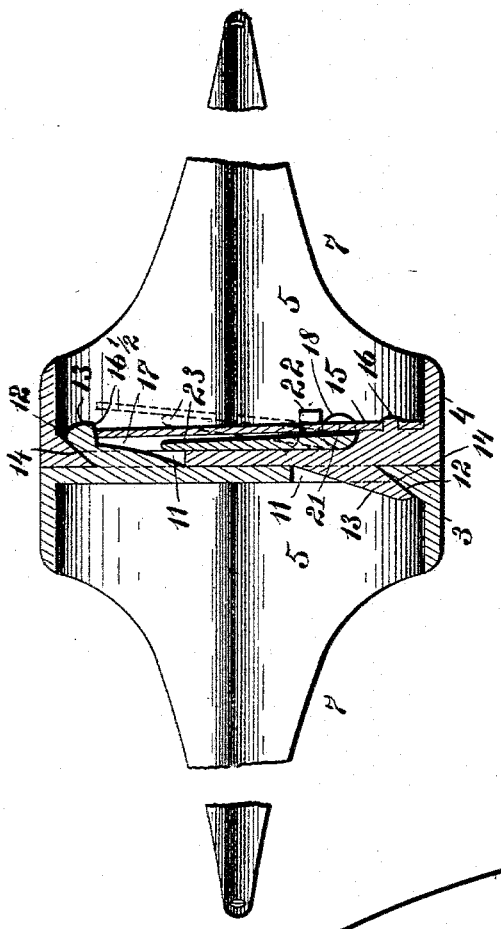


Fig. IV.

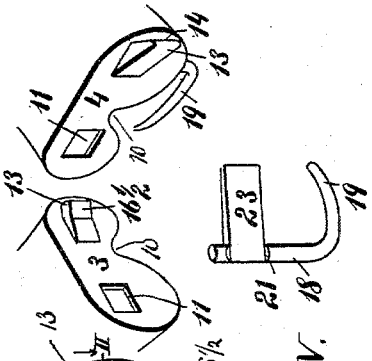


Fig. V.

Fig. III.

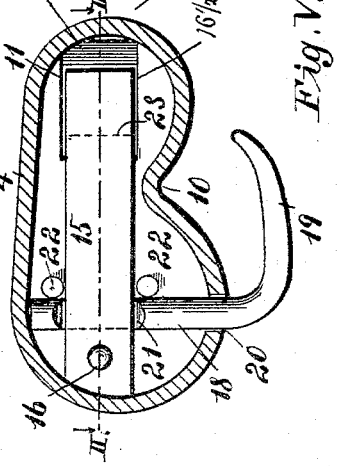
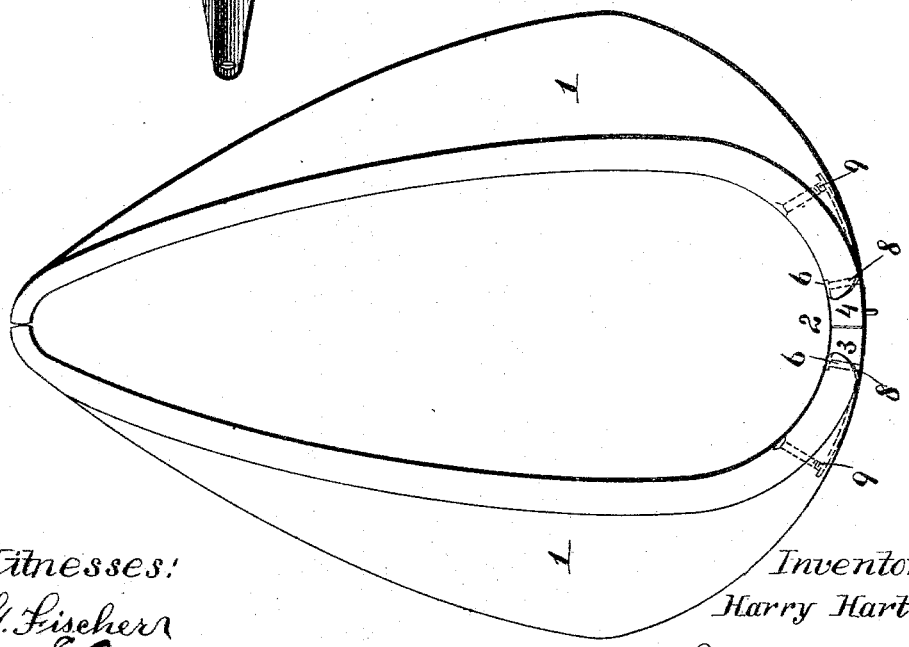


Fig. I.



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UNITED STATES PATENT OFFICE.

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HORSE-COLLAR FASTENER.

SPECIFICATION forming part of Letters Patent No. 490,282, dated January 24, 1893.

Application filed March 7, 1892. Serial No. 424,068. (No model.)

To all whom it may concern:

Be it known that I, HARRY HART, of Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Collar-Fasteners, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to a certain new and useful device for attaching the meeting ends of a horse collar; and my invention consists in certain features of novelty hereinafter described and pointed out in the claims.

Figure I, represents a front elevation of an ordinary horse collar, showing my improved device attached thereto. Fig. II, represents an enlarged longitudinal section of my improved fastener, showing the parts connected, the section being taken on line II II, Fig. III. Fig. III, represents a transverse section of my improved device, showing the spring catch and means for operating the same. Fig. IV, is a perspective view of the meeting ends of the fastener. Fig. V, is a detail perspective view of the hook lever for throwing the spring catch out of engagement with the bevel lug.

Referring to the drawings: 1, represents a collar to which my improved fastener may be attached, as shown at 2.

3, 4, represents a cap-piece or shell of the fastener formed of two sections, having hollow spaces 5 in which the ends of the collar are inserted and secured; thus forming a cap for the cut ends of the collar, as well as a fastener for the same. The sections 3, 4, have projections 6, extending a short distance along the inner side of the collar, and V shaped lips 7, extending a greater distance along the outer side of the collar, thus affording a means for securing the collar to the fastener, and re-enforcing the collar for some distance each side of the meeting point of the two sections of the fastener.

8, represents counter sunk bolts or rivets connecting the extensions 6, with the lips 7, said bolts passing through a section of the collar.

9, represents bolts or rivets for securing the lips 7 with the collar near the outer ends of said lips.

The sections 3, 4, are provided with a groove 10, on the outer side of the same, similar to a collar groove for the hames to rest in. Each of the sections 3, 4, are provided with openings 11, said openings being provided at their outer ends with beveled faces 12, in the sections 3, 4, (see Fig. II,) into which fit beveled lugs 13; the lug of one section fitting into the opening 11 of the opposite section; and vice versa. The lugs 13, are beveled, as shown at 14, and engage in the openings 11 on the beveled portion 12, of the sections 3, 4, each lug engaging the opposite section of the shell; thus inter-locking the two sections securely.

15, represents a spring catch riveted to section 4 by an integral cast iron rivet 16, the opposite end of said spring engaging a beveled face $16\frac{1}{2}$, on one of the lugs 13, said lug being reduced, as shown at 17, for this purpose, said spring bearing against said bevel face $16\frac{1}{2}$, will prevent the lugs 13, from being withdrawn from the openings 11, until said spring 15 has been thrown out of contact with said lug.

In first fitting the sections to be inter-locked, I adjust the spring 15, to bear on the beveled portion $16\frac{1}{2}$ of the lug at a point midway of its face; then as the spring wears in use it will move down on said bevel face, nearing the inner portion of said bevel face, and always forming a tight contact with the same; thus it is impossible for my fastening to become loosened by wear or by the use of the same.

18, represents a lever having a hooked extension 19, extending out through the cap-piece, as shown at 20, said lever being reduced, as shown at 21, into which the spring catch 15, is secured in order to prevent endwise movement of said lever 18, said lever is prevented from moving backward by the rivet 16, and forward by projections 22. On lever 18, is an integral wedge shaped projection 23, extending for some distance behind the spring catch 15, said wedge shaped projection being for the purpose of throwing the spring catch 15 out of engagement with the lug 13, (see dotted lines, Fig. II) in order to release the two sections of the fastener when it is desired to remove the collar. When the sections are being connected to each other the lug 13, engages the spring automatically, it not being necessary to operate the lever 18, at this time. In order to throw the spring catch 15, out of

engagement with the lug 13, all that it is necessary to do, is to press sidewise on the hooked extension 19, of the lever 18; thus forcing the wedge shaped projection 13, against the rear side of the spring 15, throwing it outward, as shown in dotted lines, Fig. II.

I claim as my invention,

1. In a collar fastening, the combination of a cap piece formed in sections, having bevel shaped lugs thereon, said lugs engaging in openings in said sections; a bevel shaped projection on one of said lugs; a spring secured to one of said sections for engaging said bevel shaped projection; a lever 18, having a reduced portion 21, in which the spring 15, rests; a wedge shaped projection 23, on the lever 18, and a hooked extension 19, for moving said wedge shaped projection laterally; substantially as and for the purpose set forth.

2. In a collar fastening, the combination of a cap-piece formed in sections 3, 4, having beveled lugs engaging in openings in the opposite section; a beveled shaped projection on one of said lugs; a spring 15, riveted to one of said lugs, and engaging at its opposite end said bevel shaped projection; a lever 18, having a hooked extension 19; a wedge shaped projection 23, on said lever 18, said lever 18, being held in place by its reduced portion 21, in which the spring 15, fits, and by the projections 22, and rivet 16, for preventing sidewise movement of the same; substantially as described.

3. The combination of a section having an opening provided with a beveled face, and a beveled lug formed with a reduced portion and a beveled face, providing a projection and a section having an opening provided with a beveled face, a beveled lug, a spring for engaging the beveled face of the projection of the other section, and means for releasing the spring; substantially as described.

4. The combination of a section having an opening provided with a beveled face, and a beveled lug formed with a reduced portion and a beveled face, providing a projection and a section having an opening provided with a beveled face, a beveled lug, a spring for engaging the beveled face of the projection of the other section, and means for releasing the spring consisting of a lever having a wedge shaped projection; substantially as described.

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