

No. 665,839.

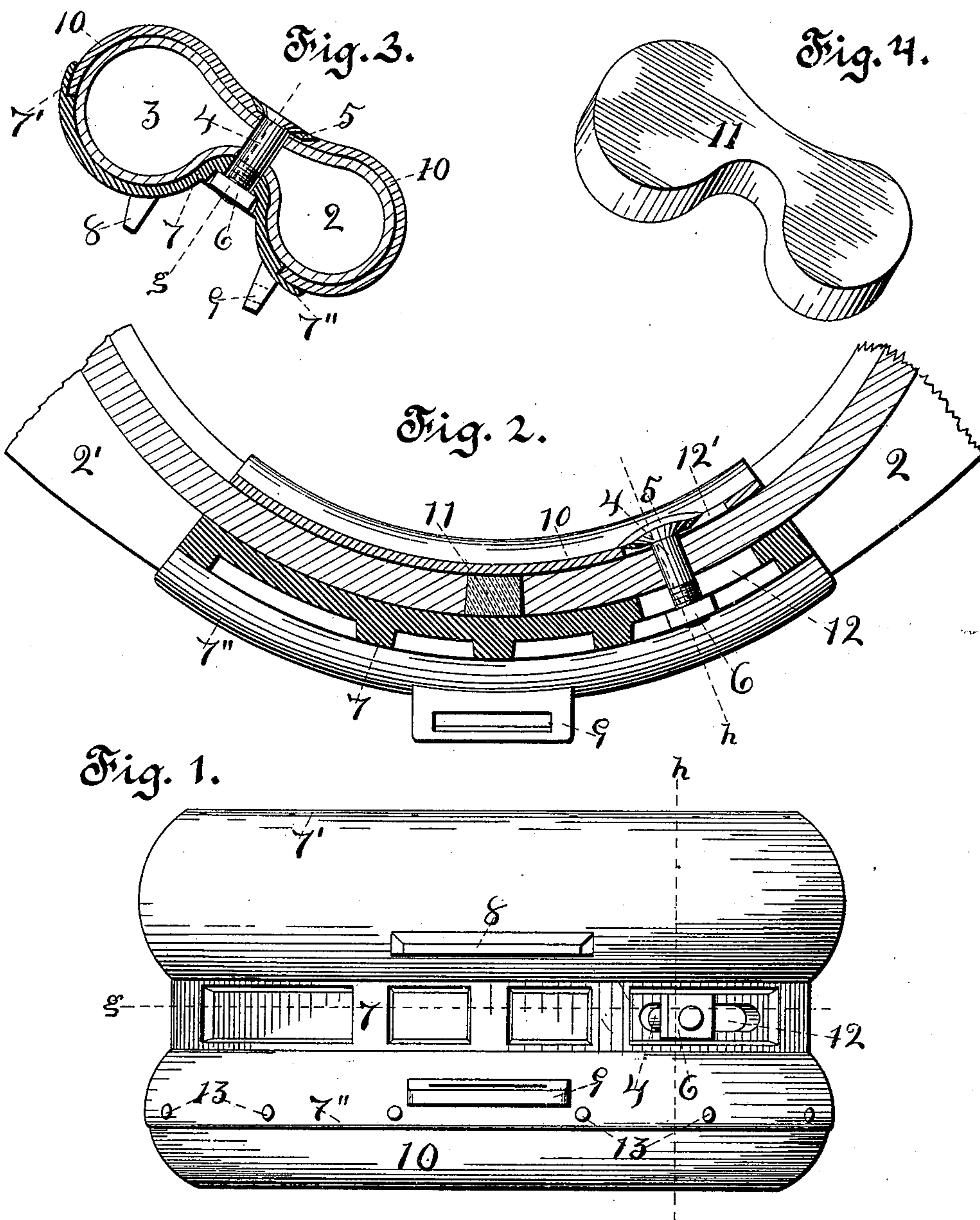
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C. C. ROSE.

OPEN THROAT HORSE COLLAR COUPLING.

(Application filed Feb. 17, 1899.)

(No Model.)



WITNESSES: *Cyrus C. Rose* INVENTOR
G. C. Marshall
J. F. Badgerow BY *John Vaughan,*
his ATTORNEY.

UNITED STATES PATENT OFFICE.

CYRUS C. ROSE, OF BLAIR, NEBRASKA.

OPEN-THROAT-HORSE-COLLAR COUPLING.

SPECIFICATION forming part of Letters Patent No. 665,839, dated January 8, 1901.

Application filed February 17, 1899. Serial No. 705,841. (No model.)

To all whom it may concern:

Be it known that I, CYRUS C. ROSE, a citizen of the United States, residing at Blair, in the county of Washington and State of Nebraska, have invented a new and useful Open-Throat-Horse-Collar Coupling, of which the following is a specification.

My invention relates to horse-collars that open at the lower end or throat; and the objects of my improvement are, first, to provide a coupling by which an ordinary whole-throat collar may be easily cut in halves and made adjustable to fit the lateral thickness of the horse's neck; second, to provide a sleeve-coupling that can be removably and adjustably attached to the end of one of the halves, and, third, among other minor objects more specifically hereinafter set forth, to provide a firm semipliable sleeve-coupling that will effectually couple and preserve the ends of the halves of the collar, resist exterior wear, and present a smooth pliable inner surface to the horse's throat. I attain these objects by the construction illustrated in the accompanying drawings, in which—

Figure 1 is an under side view of the coupling separate from the collar. Fig. 2 is a longitudinal section on the broken lines *g* of Figs. 1 and 3. Fig. 3 is a cross-section on the broken lines *h* of Figs. 1 and 2, and Fig. 4 is a detailed view in perspective of the block employed in Fig. 2.

Similar numerals refer to similar parts throughout the several views.

A common whole horse-collar cut apart at the throat and the ends capped with leather cut in the shape of the ends 2 and 2' and sewed on in the usual manner is ready to receive my adjustable sleeve-coupling, which is made and attached as follows: I construct a sleeve of longitudinal curvature to fit the curve of the lower end or throat of the collar. The outer periphery or lower front face of this sleeve is a metal plate 7 of required cross-curvature to fit on and between the belly 2 and rim 3 along the outer groove or seam of the collar, as shown in Fig. 3, the longitudinal edges 7' and 7'' being rabbeted to receive the corresponding edges of the leather part 10, which is fastened thereto preferably by the rivets 13 13, as shown in Fig. 1, which completes the sleeve. Near one end of this sleeve is

the slot 12 in the part 7 and a slot 12' in the leather part 10 registering with each other and with the groove or seam of the collar and arranged lengthwise therewith. An end of the half-collar is inserted at the end of the sleeve having the slot 12 and the screw-bolt 4 close-fitted through a perforation at the seam registering with the slots 12 and 12', as shown in Figs. 2 and 3. The head of the bolt is provided with a beveled washer 5 to overlap the leather part 10, and the nut 6 is seated flush in a mortise in the outer face of the part 7, so that it will not interfere with the hame-strap.

For convenience the plate 7 is provided at its lower edge with the martingale-loop 9 and has in front of the groove the lug or hook 8 to prevent the hame-strap, and with it the hames, being drawn forward out of the groove of the collar.

In operation the end of the collar carrying the screw-bolt 4 will when the bolt is loosened by unscrewing slide in toward the center of the sleeve or outward until the bolt strikes the outer end of the slot 12' and may be securely fastened at these or any intermediate positions by screwing home the screw-bolt, and the opposite end of the sleeve serves as a close-fitting socket to removably receive the end of the other half of the collar, which is retained therein by the hame-strap, but in no other way.

When a collar is too large or too wide at the throat, a central section may be cut away and the ends properly capped; but if too narrow or small the ends may be separated in the sleeve to correct this fault and the sleeve shifted on the end to which it is attached to bring it to a central position at the throat.

In some instances it is found expedient to interpose a flat-sided block of wood 11 between the capped ends within the sleeve; but this is not generally necessary even where the ends are far apart in the sleeve.

The metal plate 7 gives the necessary strength and rigidity to the sleeve and resists the rough outside wear, while the pliable elastic leather part 10 facilitates the fitting of the sleeve to the collar ends and presents a comfortable surface to the horse's throat instead of the usual metal surface in socket or sleeve couplings, as heretofore made.

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

1. The combination with a horse-collar open at its throat, and the usual hame-strap; of a coupling for the collar ends consisting of a sleeve loosely surrounding and receiving both of them and longitudinally slotted in its front and back plates near one end, and a bolt passing through one collar end and adjustably engaging said slots, the other collar end being held in place by said hame-strap.

2. A sleeve-coupling for an open-throat horse-collar consisting of a metal plate depressed at its transverse center and shaped to fit the outer contour of the collar, a leather sheet fitting over the inner side of the collar and riveted at its edges to said plate, lugs and loops on the latter at opposite sides of its transverse center, a fastening-bolt passing through the leather sheet, one collar end only,

and the metal plate, and having its head countersunk and its nut standing within the depression in the outer face of the plate, and means for holding the unbolted collar end detachably connected with the sleeve.

3. As a new article of manufacture, the herein-described coupling for open-throat horse-collars consisting of a sleeve shaped to receive the collar ends, a block having flat sides and movably filling but unattached to said sleeve at its center and at one side of which one collar end is loosely inserted in but unattached to said sleeve, a bolt through a longitudinal slot in the other collar end adjustably fastening it within the other end of the sleeve, and exterior means for holding the collar ends adjustably in position.

CYRUS C. ROSE.

Witnesses:

ABRAHAM D. ROSE,

CHAS. A. DARLING.