(No Model.)

C. ROEHL.

HAME.

No. 350,156. Patented Oct. 5, 1886.

Fig. 1.

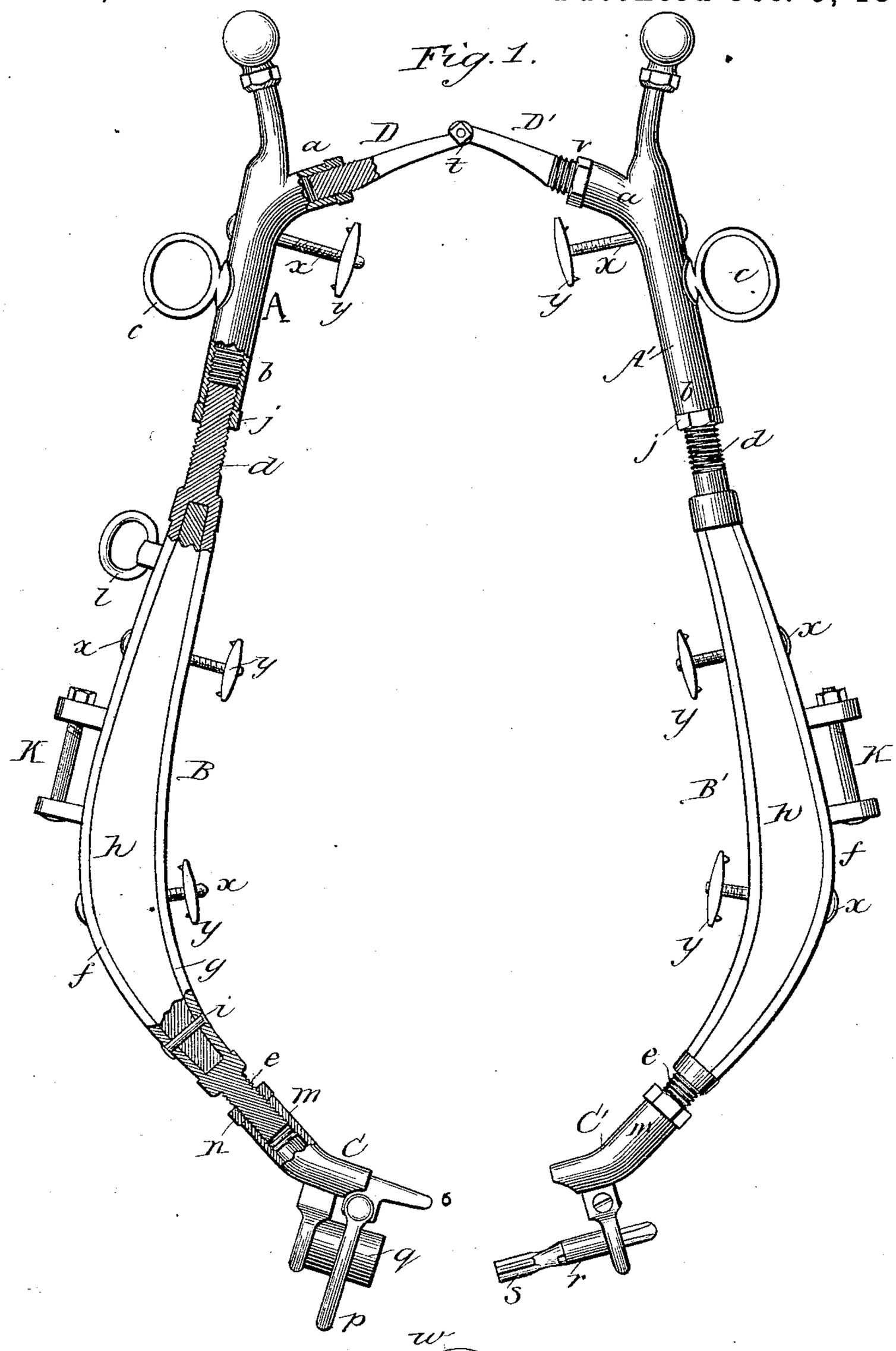
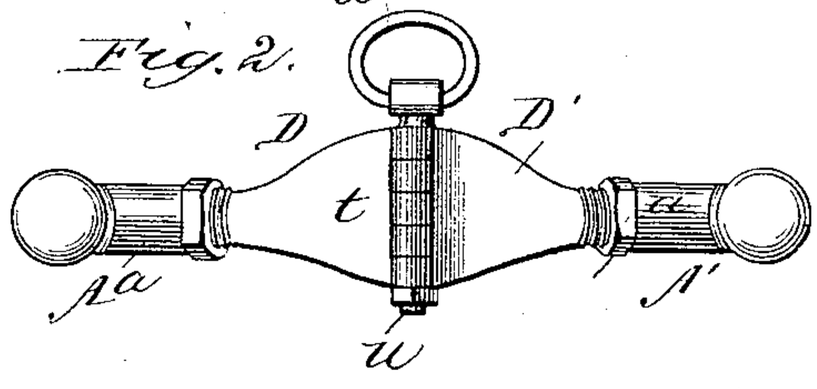


Fig. 2.



Witnesses.
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UNITED STATES PATENT OFFICE.

CARL ROEHL, OF CHERRY VALLEY, ASSIGNOR OF ONE-HALF TO CHARLES F. KLENZE, OF DAVENPORT, ILLINOIS.

HAME.

SPECIFICATION forming part of Letters Patent No. 350,156, dated October 5, 1886.

Application filed January 16, 1886. Serial No. 188,711. (No model.)

To all whom it may concern:

Be it known that I, CARL ROEHL, a citizen of the United States of America, residing at Cherry Valley, in the county of Winnebago and State of Illinois, have invented certain new and useful Improvements in Hames, of which the following is a specification, reference being had therein to the accompanying drawings.

The nature of this invention relates to hames that, for the purpose of making them fit all sizes of horses, are constructed to be adjustable in every direction; and it has been my object to produce such a hame that is light, strong, and durable, is adapted to be attached to any horse-collar, and that can be quickly placed over and securely locked around the horse's neck, and is therefore particularly suitable for fire-departments.

My invention therefore consists of the novel devices and combinations of devices hereinafter described, and specifically claimed.

In the accompanying drawings, Figure 1 represents a partly-sectional elevation of the hame, and Fig. 2 a plan view of the upper portion of same.

Corresponding letters in both the figures of the drawings designate like parts.

Each side bar of the hame is composed of three sections, A, B, and C. The upper sections, A A′, are cast of malleable iron with sockets *a* and *b*, that are interiorly screw-threaded. These sections also have secured to them the terrets *c*. The middle sections, B B′, are composed of wood and iron combined, in such manner that end studs, *d* and *e*, are connected by curved bars *f* and *g*, of flat iron, welded between, and that the space between such bars *f* and *g* is occupied by a hard-wood bar, *h*, of the desired corresponding shape, with a series of rivets, *i*, passed through such iron bars *f* and *g* and through the wooden bar *h*, for securing them rigidly together, whereby a very stiff and strong and yet light hame-section is produced. For the manufacture of this section B, I prefer to use the best Swedish iron. The studs *d* and *e* being screw-threaded, the stud end *d* is screwed the desired distance into the socket *b*, and is made rigid therein by a jam-nut, *j*. To these sections B B′ are secured, in any suitable manner, the tug-clips K; also, rings *l* may be attached for suspending the harness to the ceiling of the stable, to be lowered onto the horse, as is customary with fire-departments. The studs *e* of sections B B′ are screwed the desired distance into sockets *m* of malleable-iron sections C C′, and are held rigid therein by jam-nuts *n*. The section C has a tongue, *o*, to its end, adapted to enter a socket in the end of section C′, and has pivotally attached a ring, *p*, for coupling the neck-yoke strap or chain to the hame. The section C also has a rigid tube, *q*, and the section C′ has pivotally secured a tube, *r*, with turn-bolt *s*, that, combined with tube *q*, forms the locking device for closing the hame over the horse's neck, which locking device, however, having been already described and claimed in Letters Patent of the United States No. 285,844, granted to me on October 2, 1883, I need not give a detailed description thereof. The sections A and A′ are connected together by two malleable-iron stud-plates, D D′, coupled by a hinge, *t*, the pivot-bolt *u* of which has an eyed head with a ring, *w*. The studs of plates D D′, being screw-threaded, are screwed the desired distance into sockets *a* of sections A A′, and are made rigid therewith by jam-nuts *v*. Bolts *x* are passed through holes in hame-sections A and B and through the horse-collar, and are tapped into oblong nuts *y*, that will be placed inside of such horse-collar for forming a rigid connection between the hame and collar. It will be readily seen that a harness-hame so constructed can be readily contracted or expanded in any direction to make it suitable for the neck of any horse, and without its being complicated or its parts being expensive to manufacture.

What I claim is—

1. A harness-hame composed of sections provided with screw-studs having jam-nuts, and of screw-threaded sockets for adjustably and rigidly connecting such sections, substantially as set forth.

2. A harness-hame composed of two side bars hinged together on top and provided on bottom with a suitable locking device, and each side bar composed of four sections provided with screw-studs and screw-threaded

sockets for adjustably securing these sections together, all substantially as described, for the purpose specified.

3. A harness-hame composed of plates D D′, hinged together and provided with screw-studs for entering screw-threaded sockets of the side bars, substantially as and for the purpose set forth.

4. In a harness-hame, the sections B, having studs *d* and *e*, to screw into sockets of sections A and C, substantially as and for the purpose set forth.

5. In a harness-hame, the sections B, composed of screw-studs *d* and *e*, connected by curved iron bars *f* and *g*, that inclose wooden bars *h*, and the studs *d* and *e* adapted to enter sockets *b* and *m* of sections A and C, all substantially as and for the purpose set forth.

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

CARL ROEHL.

Witnesses:
LUCIUS F. FOOTE,
E. T. BILLMYER.