

A. MACAULAY.

Combined Horse-Collar and Hames.

No. 166,932.

Patented Aug. 24, 1875.

Fig. 2.

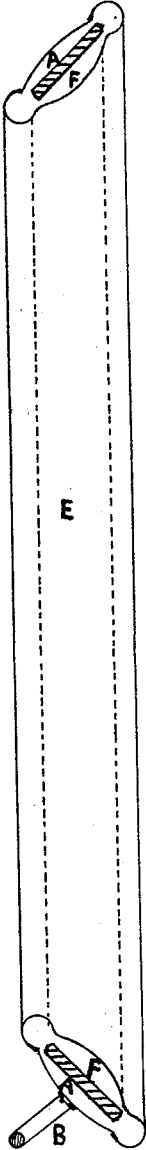
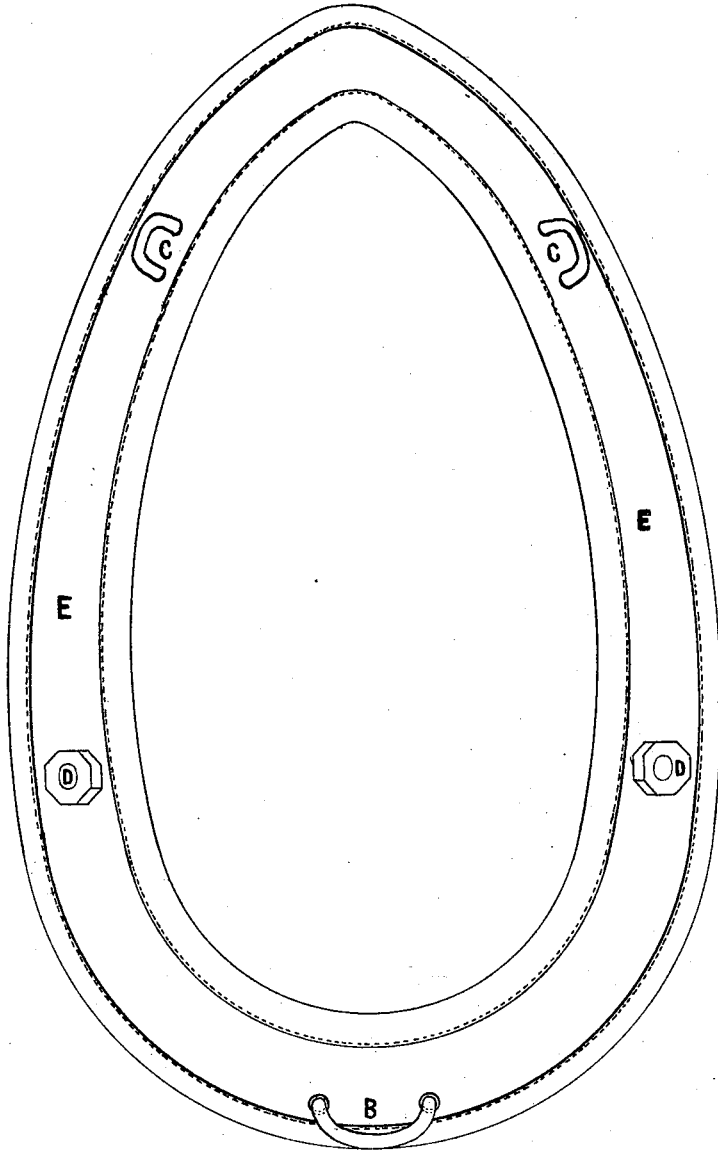


Fig. 1.



WITNESES.

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AULAY MACAULAY, OF CAMBRIDGEPORT, MASSACHUSETTS.

IMPROVEMENT IN COMBINED HORSE-COLLARS AND HAMES.

Specification forming part of Letters Patent No. **166,932**, dated August 24, 1875; application filed June 17, 1874.

To all whom it may concern:

Be it known that I, AULAY MACAULAY, of Cambridgeport, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Horse-Collars and Hames Combined, of which the following is a specification:

The object of my invention is to provide a light, cheap, simple, and durable horse-collar and hames combined, in such a manner that great strength and beauty, together with ease to the horse, shall result from its use, whether for pleasure or draft horses; and it consists of a flexible continuous flat spring-steel band covered with leather and stuffed upon the inside, the flexible continuous flat spring-steel band being flared outwardly and curved so as to fit the neck of a horse, and is provided with a staple for connecting a pole-strap, **D**'s for the reins, and screw-bolts for connecting the tug-straps to the same. By means of the flat elastic spring-steel, which forms the foundation, the collar and hames fit the neck of a horse more easily, yielding so as to conform to the muscles in the same, thus presenting a perfect fit or equal bearing upon all parts of the same, at all times when in use, thus preventing chafing and scalding. As the width or surface-bearing is so much less than those now in use, less heat is occasioned, and, consequently, less sweat is produced.

Figure 1 is a front plan view of my invention. Fig. 2 is a vertical central section of same.

A represents the flexible continuous flat spring-steel band. B is the staple into which a pole-strap may be attached. C C are the **D**'s for the reins; D D, bolts for connecting the tug-straps. E is a covering of leather or other suitable material, while F is stuffing of hair or wool, or other yielding material.

Thus I am enabled to produce a new article of manufacture which obviates the many objections to those heretofore constructed for this purpose.

The spring-steel band, and its peculiar form and adaptation to yield and fit the neck, is an essential feature in my invention.

Having thus described my invention, what I claim is—

As a new article of manufacture, a horse-collar as constructed, consisting of the flexible continuous flat spring-steel band A, provided with staple B, bolts D D, **D**'s C C, covering E, and stuffing F, all combined and arranged substantially in the manner described, as and for the purposes set forth.

AULAY MACAULAY.

Witnesses:

SYLVENUS WALKER,
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