

T. C. MARIS.
HARNESS BREAST-COLLAR.

No. 185,944.

Patented Jan. 2, 1877.

Fig. 1

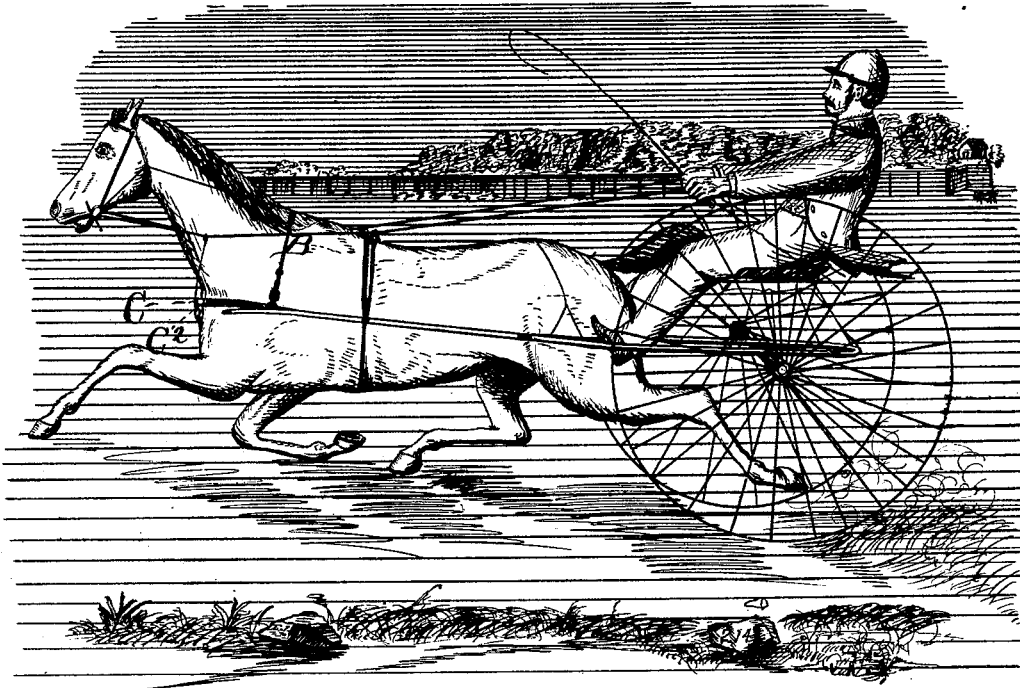
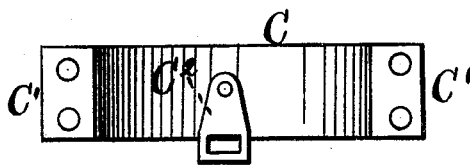


Fig. 2.



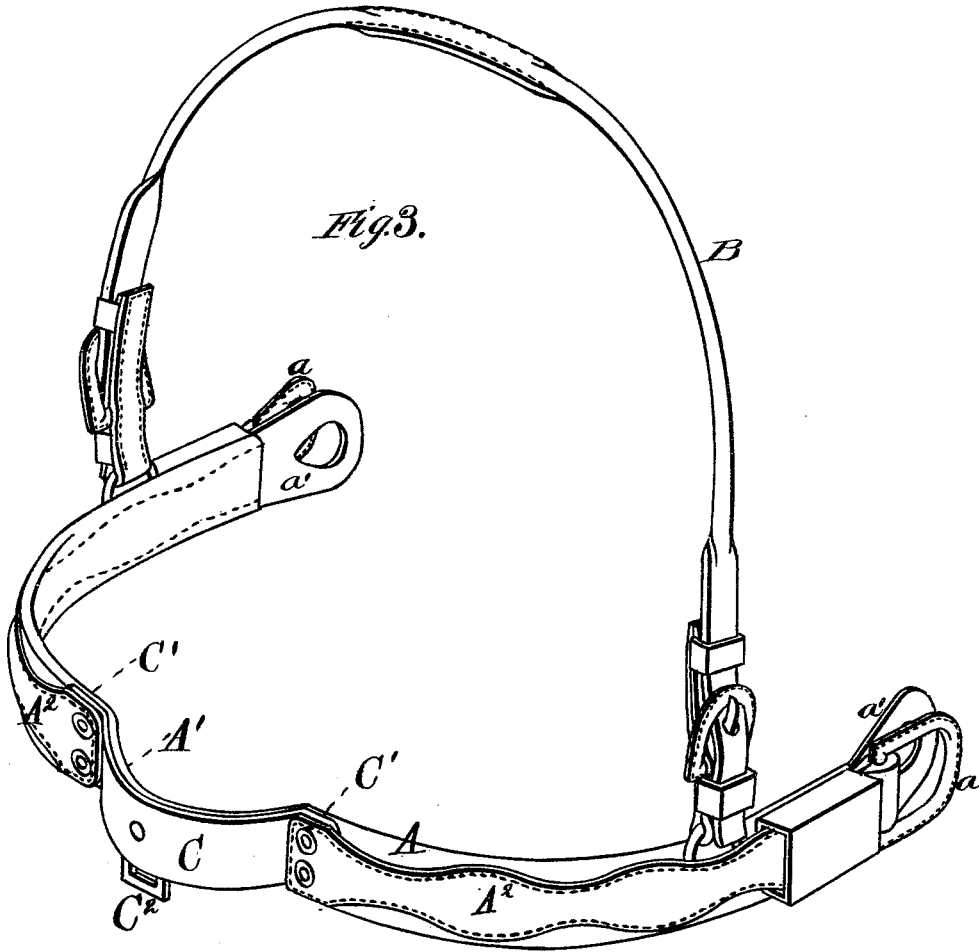
WITNESSES
Eugene H. Johnson
Robert Bennett

INVENTOR,
Thomas C. Maris.
Gilmore, Smith & Co.
ATTORNEYS.

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UNITED STATES PATENT OFFICE.

THOMAS C. MARIS, OF MARIETTA, OHIO, ASSIGNOR OF ONE-HALF HIS
RIGHT TO SAMUEL M. HART, OF SAME PLACE.

IMPROVEMENT IN HARNESS BREAST-COLLARS.

Specification forming part of Letters Patent No. **185,944**, dated January 2, 1877; application filed
November 4, 1876.

To all whom it may concern:

Be it known that I, THOMAS C. MARIS, of Marietta, in the county of Washington and State of Ohio, have invented a new and valuable Improvement in Breast-Collar; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of my breast-collar applied, and Fig. 2 is a front elevation of the same. Fig. 3 is a perspective view thereof.

This invention relates to breast-collars for horses; and it consists in constructing them with an outward bow or curve for the animal's throat, and in providing said bow with a metal stiffening-plate.

In the annexed drawings, A designates a leather breast-collar, and B a neck-strap passing over the horse's neck, and secured to said collar near the draft ends thereof. Collar A is provided at said ends with buckles *a a*, for the attachment of the traces, and with protecting-straps *a a'*, which intervene between the said buckles and the animal's body. The collar immediately at the front is sharply curved, forming an outward projection, *A'*, which is stiffened by similarly-curved metal plate C. (Shown in detail in Fig. 2.) Said metal plate is provided at each end with a flat extension or attaching-flange, *C¹*. These flanges are riveted to said collar on each side of projection *A¹*. To make the attachment more secure, said collar is provided with an outer thickness or strip of leather, *A²*, on each side of projections *A¹*, and flanges *C¹* are secured

by riveting, as above described, between the front ends of said outer strips *A²* and the body of the collar. The curved plate or stiffening-bow is provided with a metal eye or slotted plate, *C²*, for the attachment of a strap to hold the collar in place.

By the above construction the horse's windpipe is preserved from pressure, since the windpipe sets within said bow *A¹*, and the strain comes mainly upon the animal's breast. The surface presented to his throat and breast is leather, and causes no abrasion of the skin, while the stiffening-plate *C'* gives to it all the rigidity of metal.

Various modifications may be made without departing from the spirit of my invention.

What I claim as new, and desire to secure by Letters Patent, is—

1. A breast-collar formed with a bowed portion, C, and a correspondingly-shaped stiffening-plate outside of said bow, substantially as and for the purpose set forth.

2. A breast-collar, A, provided with a leather front bow, *A¹*, a curved stiffening-plate, C, having extensions or flanges *C¹ C¹*, and outer leather strips *A² A²*, between which strips and said collar the said extensions or flanges are secured, substantially as set forth.

3. As an article of manufacture, a curved metal plate, C, provided with flat extensions or flanges *C¹ C¹*, and slotted strap-attaching-plate *C²*, substantially as set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

THOMAS C. MARIS.

Witnesses:

WM. STRACHAN,
GEO. T. HOVEY.