

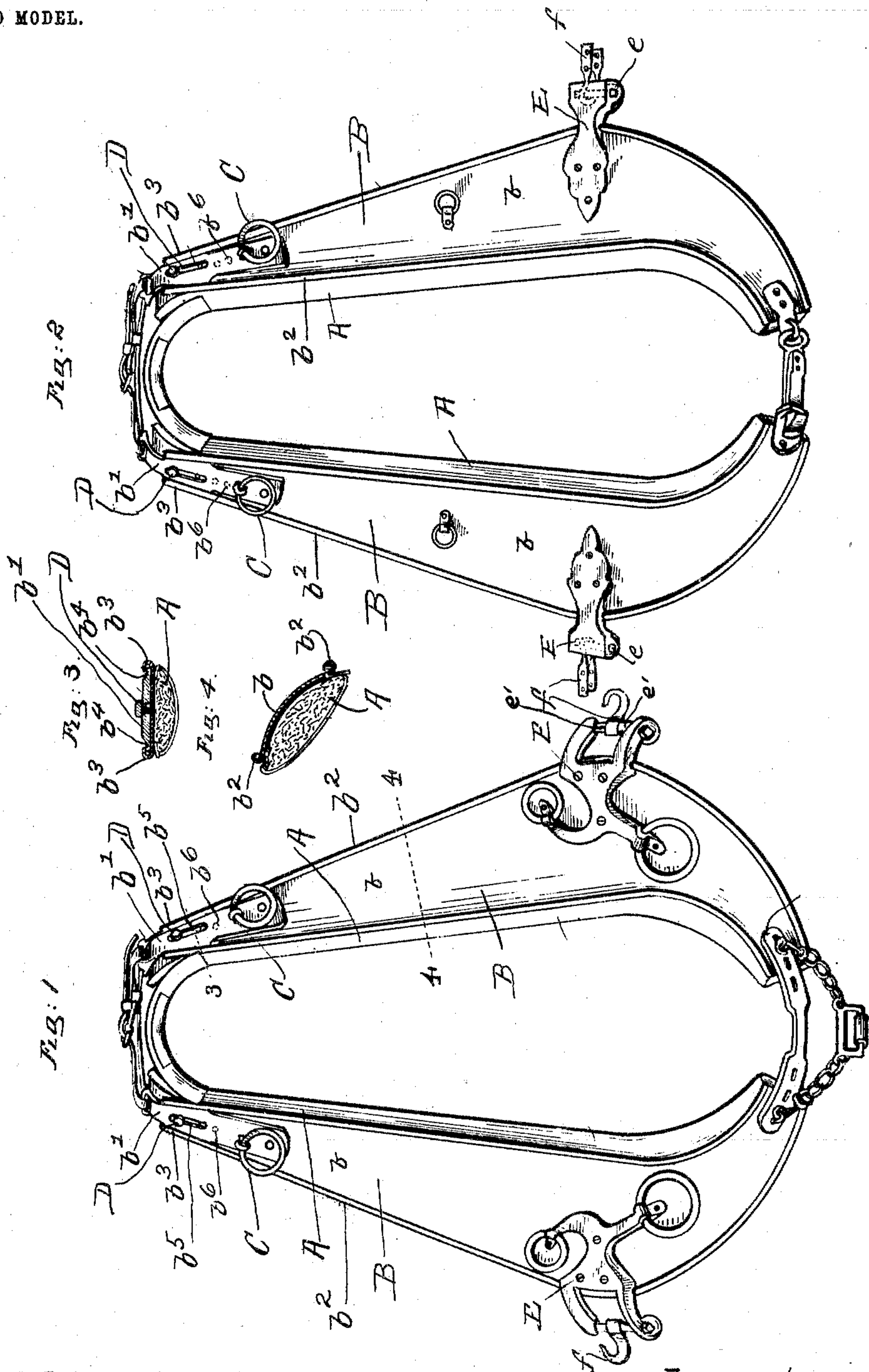
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PATENTED AUG. 9, 1904.

B. F. CHAPMAN.
HORSE COLLAR.

APPLICATION FILED JAN. 17, 1903.

NO MODEL.



WITNESSES.
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UNITED STATES PATENT OFFICE.

BENJAMIN F. CHAPMAN, OF WIARTON, CANADA.

HORSE-COLLAR.

SPECIFICATION forming part of Letters Patent No. 767,102, dated August 9, 1904.

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To all whom it may concern:

Be it known that I, BENJAMIN F. CHAPMAN, a citizen of the Dominion of Canada, residing at the village of Wiarton, in the county of Bruce and Province of Ontario, Canada, have invented new and useful Improvements in Horse-Collars, of which the following is a full, clear, and exact specification.

Referring to the drawings, Figure 1 is a plan view of a horse-collar embodying the principal features of my invention. Fig. 2 is a plan view of a somewhat lighter collar, showing some different details of construction. Fig. 3 is a view in cross-section on line 3 3 of Fig. 1. Fig. 4 is a view in cross-section on line 4 4 of Fig. 1.

Referring to the drawings, A A represent the pads of a collar, of suitable material and usual design. Said pads are each secured by rivets, stitching, or other like means to a thin plate B, preferably of sheet metal, curved to conform to the usual figure of a collar. Said plate B is made in two sections b and b' , having longitudinal telescoping engagement with each other, whereby the length of the collar may be altered to suit different animals. The margins b^2 for the major portion of the length of the plate b are rolled in a familiar manner to form rounded edges or "false-wire" edges, which are so disposed as to stand away from the pad A, thereby performing the double office of stiffening the plate-section and preventing its edges cutting the pad-covering. Near the upper end of the section b the margins b^2 are not curled tightly down against the body of the plate, but are bent back parallel to its outer face and a short distance therefrom, so as to form U-shaped guides b^3 . (See Fig. 3.) Inasmuch as the upper portion of section b is formed with approximately parallel edges these U-shaped guides are parallel also. The upper section b' of said plate has sliding engagement with the lower section, its margins b^4 entering the guides b^3 and securing the sections together rigidly against lateral displacement. In order to adjustably secure the two sections longitudinally, a series of perforations b^5 are provided in the lower plate b . These perforations, which are screw-threaded, engage the shank of a rein-

ring C, passing through the outer or upper section b' . A longitudinal slot b^5 is formed near the upper end of the upper section b' , and a set-screw D, having screw-threaded engagement with the lower section b , passes through this slot and clamps the contiguous parts of the sections closely together.

The tugs of the harness are attached to the collar by means of tug-hooks E of any preferred design, which are firmly secured to the outer side of the lower section b of the telescoping plates B in such a manner that their point of connection with the tug-eye proper is beyond the body of the pad. This keeps the tug from chafing the latter and wearing through its casing. In order to change the vertical position of the tug so that the point of application of its strain on the collar will be approximately the same notwithstanding the increase or decrease of length of the latter, a stud-bolt e of considerable length is inserted in this tug-hook E. This bolt is encircled by the tug eyelet or fastener f , and the latter is held against longitudinal movement therein by ferrules e' , placed on the bolt above and below the eyelet. Said ferrules may be varied in length, so as to hold the eyelet at any preferred position on the bolt, thereby allowing the tug strain to be shifted on the collar to correspond to different lengths thereof.

A special advantage of this construction of collar is that only so much weight is carried as is necessary to stand the strain. The adjustable stiffening-plates bear against the entire outer face of the collar, and their telescoping adjustment permits the latter to be quickly and readily fitted to any animal. Furthermore, the tug may be so positioned thereon as to correspond to this lengthening and shortening, thereby insuring perfect ease and comfort to the animal and eliminating the possibility of shoulder-galls and the like.

I claim as my invention—

1. In a horse-collar, a thin metallic plate curved to conform to the desired contour of the collar and formed in sections, the major portion provided with perforations and having its margins rolled to form rounded edges disposed to stand away from the pad, with the

upper portions of said margins bent back parallel to the outer face of the plate to form guides, the minor portion of said plate slidably engaged in said guides and having a longitudinal slot in its upper end, a pad secured to said plate, with its edges out of contact with said edges of the plates, a rein-ring having a shank threaded into said perforations, and a set-screw passed through said slot and engaged with the major portion of said plate.

2. A horse-collar comprising a pair of oppositely-disposed hame-plates of thin metal, each curved to conform to the desired contour of the collar and having a major and a minor portion superposed one on the other, the major portion of each plate having its margins rolled to form rounded edges disposed to stand away from the pad, with the upper portion

of the margins bent back parallel with the outer face to form guides, the minor portions of the said plates being slidably mounted in said guides, pads secured to said plates with their edges out of contact with the edges of the plates, adjustable rein-rings passed through the outer plates into the lower plates, and set-screws passed through elongated slots in the outer plates and engaging in the lower plates, all substantially as and for the purpose specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

BENJAMIN F. CHAPMAN.

Witnesses:

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