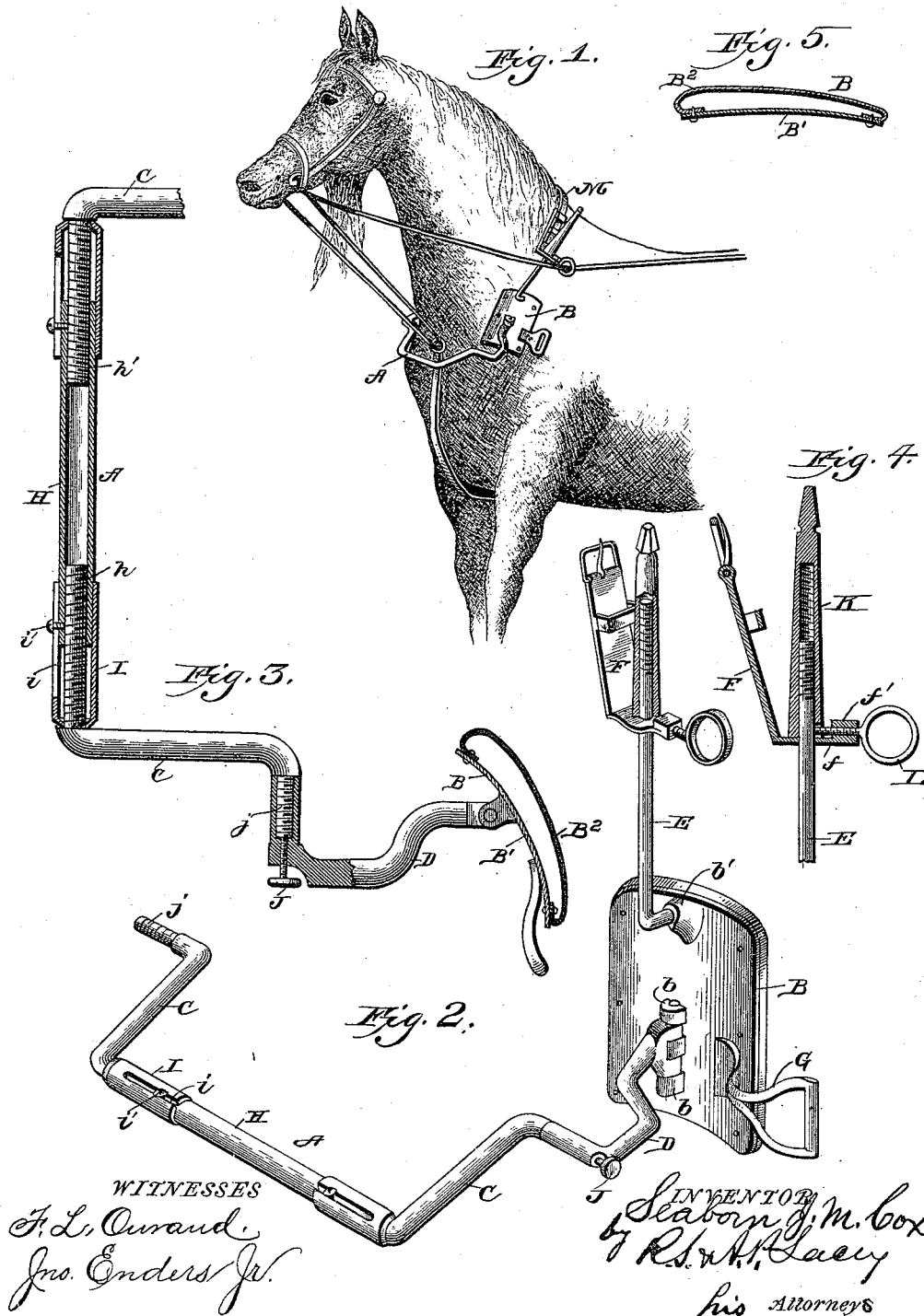


(No Model.)

S. J. M. COX.
HORSE COLLAR.

No. 442,864.

Patented Dec. 16, 1890.



UNITED STATES PATENT OFFICE.

SEABORN J. M. COX, OF JOHNSTON, SOUTH CAROLINA.

HORSE-COLLAR.

SPECIFICATION forming part of Letters Patent No. 442,864, dated December 16, 1890.

Application filed September 6, 1890. Serial No. 364,202. (No model.)

To all whom it may concern:

Be it known that I, SEABORN J. M. COX, a citizen of the United States, residing at Johnston, in the county of Edgefield and State of South Carolina, have invented certain new and useful Improvements in Horse-Collars; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to horse-collars, and is designed as an improvement on my patent numbered 322,260.

15 The object of the invention is to effect a nearly equal distribution of the draft over the pad, so that the latter will bear with equal pressure on all points of the horse's shoulder.

Another object of the invention is to replace the strap-hangers of my previous patent by a rigid hanger which will stand away from the horse's neck and prevent heating and chafing.

25 The improvement consists of the novel features, which will be hereinafter more fully described and claimed, and which are shown in the annexed drawings, in which—

Figure 1 is a view of the forepart of a horse, showing the application of the invention thereto. Fig. 2 is a perspective view of one pad and the breast-iron, on an enlarged scale, the adjusting-nut on upper end of the rigid hanger being broken away. Fig. 3 is a horizontal section of the pad and the coupling 35 which connects the end portions of the breast-iron, showing the relative position of the approximately goose-neck-shaped bracket which connects the pad with the breast-iron, the end of said bracket being broken away to show the connection between it and the breast-iron. Fig. 4 is a vertical section of the adjustable nut on the upper end of the rigid hanger and the metal plate provided with a buckle, showing them applied to the upper 45 end of the said hanger. Fig. 5 is a horizontal section of a modified form of pad.

The collar is composed of a breast-iron A, a pad B for each shoulder, approximately goose-neck-shaped brackets D, connecting the pads with the ends of the breast-iron, a rigid 50 hanger E for each pad, and a metal plate F

at the upper end of the hanger, provided with a buckle.

The pad B is oblong and slightly convexed in cross-section on the side which comes in 55 contact with the horse's shoulder, and is provided on its rear side with lugs *b*, tug-loop G, and socket *b'* to receive the lower bent end of the hanger E. The pad comprises two parts, plate B' and cushion B², the 60 latter being secured to the face of the plate and composed of rubber or the ordinary hair-filled cushion, or it may be an air-cushion formed by securing a metal sheet to the edges of the plate B' in such a manner as to leave an 65 air-tight space between the opposing sides of the metal sheet and the plate B'. (See Fig. 5.) The tug-loop G is of metal and curves around the outer edge of the pad, and is attached to the rear side of the pad some distance 70 from the said edge, being preferably cast with the metal plate B'.

The breast-iron comprises the two crank-pieces C C, which have their ends threaded, and the coupling H, the latter being right and 75 left threaded to receive the right and left threaded ends of the crank-pieces C, respectively. The sleeves I, slipped on the ends of the coupling H, are contracted at their outer ends to fit closely on the threaded ends *h* and 80 *h'* of the crank-pieces C C, and hide the threads thereof from view and protect them from dirt and dust. These sleeves I have slots *i*, through which work the jam-screws *i'* to hold the sleeve in place on the coupling and hold the coupling 85 in place on the threaded ends of the crank-pieces.

The approximately goose-neck-shaped brackets D are pivotally connected at their inner ends with the pads, and have sockets 90 in their outer ends, which receive the threaded ends *j* of the crank-pieces C C. The binding-screws J pass through the socket ends of the brackets D and enter the threaded ends of the crank-pieces C, and hold the latter in 95 proper relation with the said brackets.

The hanger E is secured at its lower end in socket *b'*, and its upper end is threaded and receives the nut or head K, which is internally threaded to receive the threaded end of 100 the hanger E. The nut or head K is long, and the socket formed therein for the recep-

tion of the upper end of hanger E is threaded at its upper end only, the lower portion being plain to slide over that portion of the hanger immediately below the threaded portion thereof.

The plate F, having a buckle at its upper end, is provided at its lower end with the horizontal portion *f*, which is apertured to permit the passage therethrough of the hanger E, and which is provided at its outer end with the socket *f'*, which receives the threaded shank of the ring L. The plate F is connected by means of the buckle with one end of the strap M, which passes over the horse's neck and is adjustable on the hanger to adapt the collar for different-sized horses, being adjusted by turning the nut or head K up or down on the said hanger. The threaded shank or ring L passes through a notch in the lower end of the nut or head K, and is adapted to bear on the hanger E, thereby holding the nut or head from turning in either direction.

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

1. In a horse-collar, the combination, with the draft pads, means for supporting the draft-pads, and the breast-iron connected at its ends with the said pads, of the metal tug-loops curved around the outer edges of the said draft-pads and secured to the rear sides thereof a short distance from the said outer edges, substantially as described, for the purpose specified.

2. In a horse-collar, the combination, with the draft-pads, the breast-iron, and the hangers projected up from the pads, of plates provided with buckles adjustably mounted on the said hangers, substantially as described.

3. In a horse-collar, the combination, with the draft-pads having hangers, the breast-iron,

and the plates provided with buckles mounted on the hangers and having threaded sockets *f'*, of the heads or nuts K, screwed on the upper ends of the hangers, and the rings L, having their threaded shanks screwed into the sockets *f'* and engaging with the said heads or nuts K, substantially as described.

4. In a horse-collar, the combination, with the draft-pads and the breast-iron connected at its ends with the said pads, of the coupling H, the sleeve I, slipped on the ends of the coupling H and having slots *i*, and the jam-screws *j'*, substantially as set forth.

5. The herein-described draft-pad, composed of a metal plate having a cushion on its face and having a socket *b'*, lugs *b*, and a tug-loop G on its rear side, substantially as shown.

6. A horse-collar comprising draft-pads, rigid hangers projected up from the pads and provided with a head or nut, a plate provided with a buckle on its upper end, mounted on the upper end of the hanger and having a threaded socket at its lower end, a ring having its threaded shank passing through the said threaded socket and adapted to engage with the said head or nut, a draft-loop projected from the rear side of the pads and curving around their outer edges, the approximately goose-neck-shaped brackets, the breast-iron connected at its ends with the said brackets, and the adjustable sleeves on the ends of the coupling of the breast-iron, substantially as shown, and for the purpose described.

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

SEABORN J. M. COX.

Witnesses:

S. A. TERRY,

FRANK W. CARTER.