

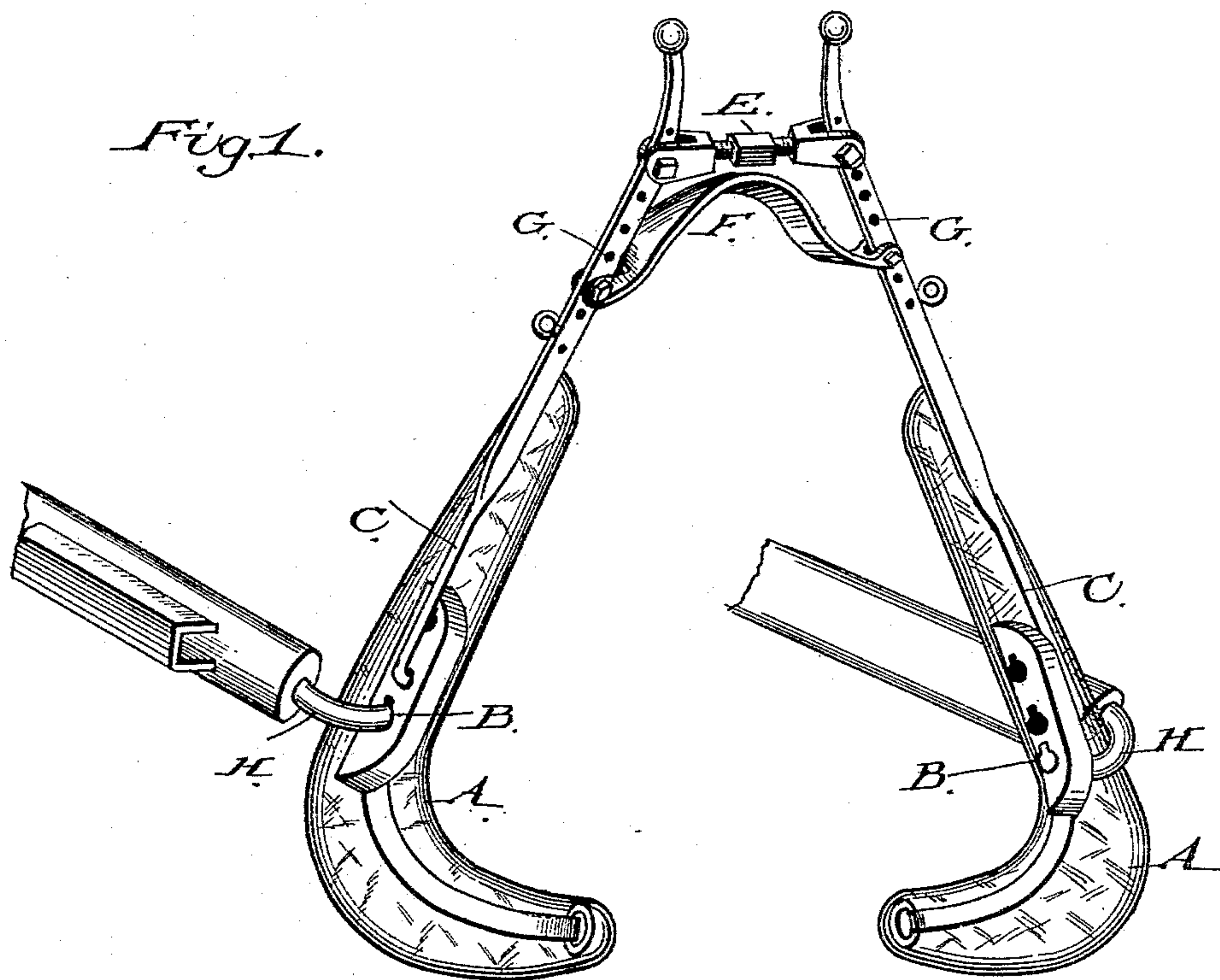
(No Model.)

2 Sheets—Sheet 1.

S. B. DAVIS.
HORSE COLLAR.

No. 331,871.

Patented Dec. 8, 1885.



Witnesses
J. Walter Fowler
H. B. Applewhite,

Inventor
S. B. Davis
By his Attorneys *Dewey & Co*

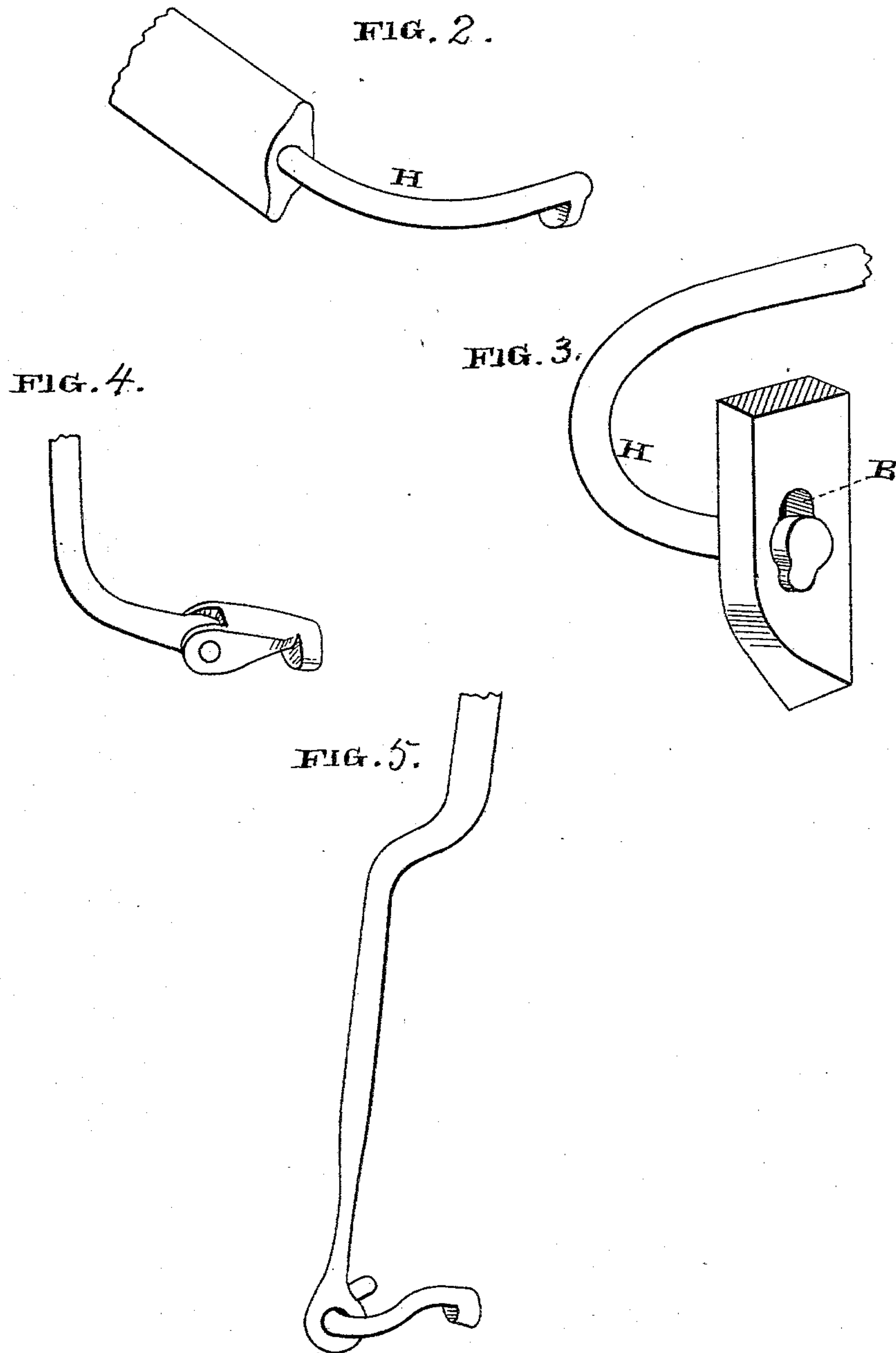
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HORSE COLLAR.

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Witnesses,
J. H. Morse
H. C. Lee

Inventor
S. B. Davis
By *Devey & Co.*
Attorneys

UNITED STATES PATENT OFFICE.

SYLVESTER B. DAVIS, OF EUREKA, CALIFORNIA.

HORSE-COLLAR.

SPECIFICATION forming part of Letters Patent No. 331,871, dated December 8, 1885.

Application filed July 11, 1885. Serial No. 171,389. (No model.)

To all whom it may concern:

Be it known that I, SYLVESTER B. DAVIS, of the town of Eureka, Humboldt county, State of California, have invented an Improvement in Horse-Collars; and I hereby declare the following to be a full, clear, and exact description of the same.

My invention relates to certain improvements in horse-collars; and it consists in loosely hinging or suspending shoulder-pads from the neck-pad by means of hame-irons, so that the pads may have a freedom of movement and adjust themselves to the varying positions of the horse's shoulders.

It also consists in the manner of attaching the tugs or traces to the pads and a means for adjusting the size of the collar.

Referring to the accompanying drawings for a more complete description of my invention, Figure 1 is a view of my improved collar. Figs. 2, 3, 4, and 5 are details of construction.

A A are the pads which form the collar, being suitably shaped to fit the shoulder of a horse. These pads may be made of metal or of any suitable material, either lined with leather or otherwise, and they have plates or projections formed upon or secured to the outer or back sides. These are perforated with holes B, into which the lower ends of the hame-irons C may be received. These ends are bent at right angles with the vertical portion of the irons, and have heads upon the inner ends, which pass through the elongated openings B by turning the irons C into a certain position with relation to the pads, and these heads become locked, so that the irons will not withdraw from the holes when they stand in their proper relative position with the pads or collar for work. At the lower end of the pads is a loop, through which a hame-strap is passed, to prevent any extensive displacement of the collar-pads. By means of the holes B, which are arranged vertically, the collar-pads may be raised or lowered to suit different sizes of neck or form of shoulders to which the collar may be applied. The upper end of the hame-irons may either be permanently fixed to the neck-pad when the size of the collar is not to be changed at this point, or they may extend upward and their upper ends may be united by a turn-buckle

or right-and-left screw, E, the ends of which turn in suitable nuts, so that by turning the screw the upper ends of the hame-irons may be drawn nearer together or separated, thus adjusting the width to the width of neck which they are to fit. In this case the neck-pad F has its ends secured to the hame-irons by bolts, which pass through holes G in these irons, and by this arrangement the neck-pad may be raised or lowered in connection with the raising or lowering of the collar-pads, so that the collar may be fitted to any-sized horse. The tugs or traces are connected with the collar by the irons H. One end of each of these irons is secured to one of the traces, and the other end is bent at right angles and passes through a hole in the lower part of the plate to which the hame-irons are attached. These tug-irons have similar locking-heads to those which are described for the hame-irons, so that they may be properly held in place or may be removed when desired. These tug-irons are rigid and stiff, but turn loosely in the holes through which they pass in the plates upon the collars, and as they project outwardly at right angles and are then bent so as to extend in line with the draft, it will be seen that the pull will cause a direct pressure upon the collar, and will not tend to twist it or interfere with its perfect freedom of motion to fit itself upon the shoulders of the animal, as would be the case if the tugs were attached by the ordinary loose links. By means of the loose or swiveled supports which the collar has from the hames it will be seen that the collar is allowed to move with every movement of the shoulders of the horse, each part moving independently of the other and always fitting perfectly upon the shoulders, whatever may be their position, thus relieving them from chafing, and enabling the horse to do his work in the best possible manner.

It will be seen that the details of construction may be somewhat changed without essentially altering the character of the operation of my invention, which consists mainly in the loose or swiveled and adjustable support of the collar.

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

1. In a horse-collar, the loosely-suspended

independent collar-pads, in combination with the hame-irons and a means, constructed substantially as described, whereby the upper ends of the irons are adjusted toward or from
5 each other, as herein set forth.

2. In a horse-collar, the loosely-suspended independent collar-pads, in combination with the hame-irons, a neck-pad connected with the hame-irons and adapted to be adjusted
10 up or down by means substantially as shown, and suitable locking-heads on the hame-irons, whereby they may be held in place or removed, substantially as herein described.

3. In a horse-collar, the independently-sus-

pended collar-pads, the hame-irons adjustably
15 connected therewith, the neck-pad adjustably connected with said hame-irons, and a means, constructed substantially as described, for adjusting the upper ends of said irons to or from
each other, together with the trace or draft
20 irons swiveled to the collar-pads, substantially as and for the purpose herein described.

In witness whereof I have hereunto set my hand.

SYLVESTER B. DAVIS.

Witnesses:

S. H. NOURSE,

H. C. LEE.