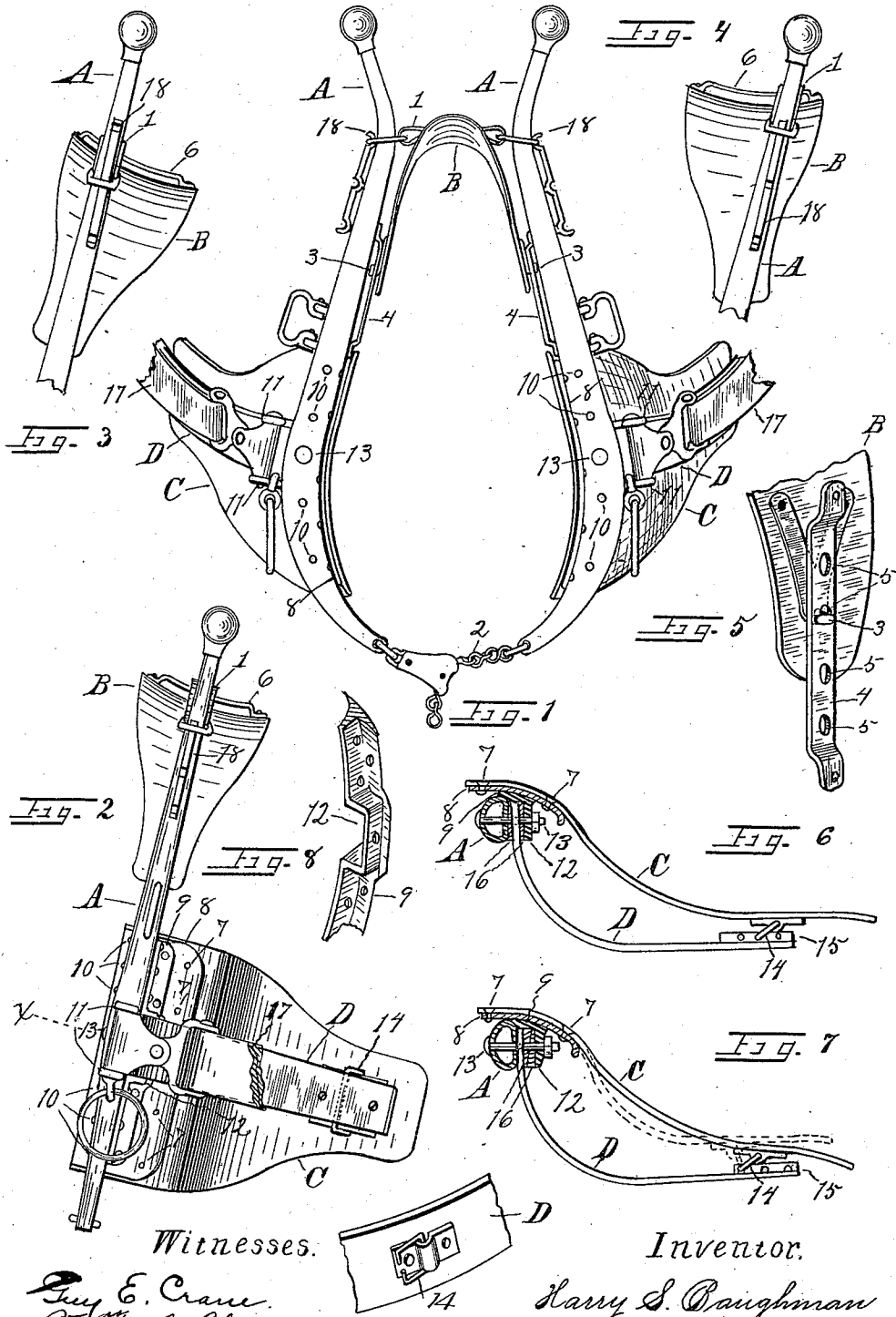


H. S. BAUGHMAN.
HORSE COLLAR.
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Patented Apr. 22, 1913.



Witnesses.

Inventor.

Gay E. Crane.

Harry S. Baughman

Wm. C. Clark. Fig. 9.

By Victor C. Randall
Att'y.

UNITED STATES PATENT OFFICE.

HARRY S. BAUGHMAN, OF ALBION, MICHIGAN.

HORSE-COLLAR.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, HARRY S. BAUGHMAN, a citizen of the United States, residing at Albion, in the county of Calhoun and State of Michigan, have invented certain new and useful Improvements in Horse-Collars, of which the following is a specification.

This invention relates to improvements in draft collars.

10 The main objects of this invention are: First, to provide an improved draft collar that can be readily adjusted to fit different draft animals and to various conditions of a draft animal's shoulders whether full, medium or narrow. Second, to provide an improved draft collar which allows free muscular action of the animal's shoulders and at the same time prevents chafing, galling and sweeney frequently caused by collars as ordinarily used. Third, to provide an improved draft collar which is economical to produce and durable in use.

Further objects, and objects relating to structural details, will definitely appear from the detailed description to follow.

I accomplish the objects of my invention by the devices and means described in the following specification.

The invention is clearly defined and pointed out in the claims.

A structure which is a preferred embodiment of my invention is clearly illustrated in the accompanying drawing, forming a part of this specification, in which:

35 Figure 1 is a front elevation of my improved draft collar, the traces being shown attached thereto, the rear ends of the traces being broken away. Fig. 2 is a side elevation with the traces broken away. Figs. 3 and 4 are detail side elevations showing the neck pad or saddle B in different positions. Fig. 5 is a detail side elevation showing the details for the neck pad or saddle B to the hames. Fig. 6 is a cross sectional view on a line corresponding to line $x-x$ of Fig. 2. Fig. 7 is a similar view, the wedge blocks 16 being shown in a different adjustment or position to adjust the arm D relative to the hame. Fig. 8 is a detail perspective of the anchor member 9. Fig. 9 is a detail inside perspective of one of the supporting arms D and the attaching loop 14.

In the drawing, similar reference characters refer to similar parts throughout the several views.

Referring to the drawing, the collar members A are substantially the same in form as the hames of the common form of harness and I designate the same herein as hames.

The hames A are connected at the top by the strap 1 and at the bottom by the chain 2. The neck pad or saddle B is arranged between the hames and is pivotally connected thereto at its lower end and is provided with a loop 6 at its upper end through which the strap 1 is passed. This allows the hames to tilt or swing relative to the saddle or neck pad. The hames are preferably adjustably connected to the neck pad by means of the T-headed studs 3 mounted on the neck pads and the straps 4 on the hames, the straps having a series of perforations or slots 5 therein adapted to receive the studs 3 when presented transversely thereto so that the studs are locked in the straps when in operative position. See Fig. 5.

The loop 6 prevents the pad swinging over to its disengaging position and at the same time allows freedom of movement of the hames relative to the neck pad so that the neck pad is not worked back and forth or rocked as the hames are swung by the shoulders of the animal.

Toward the lower end of the hames, I secure rigid neck plates 8 which are conformed to fit the sides of the neck, the rear edges being curved outwardly as shown in Figs. 6 and 7.

Shoulder members or pads C formed of leather or some material which is somewhat yielding or flexible are secured at their forward ends to these neck plates as by the rivets 7 and project rearwardly therefrom.

Neck plates 8 are secured to the hames by the angle shaped anchor bars 9, the connection in the structure illustrated being by means of the rivets 10.

The hames are provided with trace connections 11 to which the traces 17 are pivotally connected. The bars 9 are provided with sockets 12 adapted to receive the forward ends of the shoulder member supporting arms D. These supporting arms D are rigid and curved to extend rearwardly at the sides of the shoulder members C.

To provide means for adjusting the angle of the supporting arms D relative to the hames A, I provide wedges 16 which are arranged in the sockets 12 at the sides of the arm D. See Figs. 6 and 7. The parts are

secured together by the bolts 13 which pass through the sides of the sockets, the hames, the arms and wedges.

The rear ends of the shoulder members C are secured to the supporting arms D so that the force exerted upon the members C by the horse is transferred partially through the arm D to the hames. This connection, in the structure illustrated, consists of links 14 carried by plates on the shoulder member C and the clips 15 on the arms D. These clips are provided with a series of notches adapted to receive the links so that an adjustable connection is provided for the shoulder members to their supporting arms.

The trace connection of the hames is independent of the shoulder members or pad members C and their supporting arms so that the draft on the traces is from the hames and not through the shoulder members C as has been the case in certain instances heretofore. This arrangement of the parts permits the adjustment of the shoulder members to the particular animal upon which the collar is used so as to secure the desired fit of the draft members upon the shoulders and when the animal is working, the stress on the traces does not tend to compress the shoulders together.

The connection for the hames or the saddle of the collar allows independent movement of the pad members so that the harness moves freely with the stride of the animal and thus prevents chafing and the swinging of the shoulder members or pads away from the shoulders at each step of the animal.

My improved collar is very efficient and at the same time it is comparatively simple and economical in structure. As before stated, the collar can be readily adjusted to different animals or different conditions.

I have illustrated and described my improvements in a simple embodiment. I am aware that considerable variation in structural details is possible, but have not attempted to illustrate and describe such variations as I believe with the disclosure made my improvements will be readily understood by those skilled in the art to which this invention relates. I desire, however, to be understood as claiming my improvements specifically in the form illustrated as well as broadly within the scope of the appended claims.

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

1. A draft collar comprising hames, neck plates secured thereto, shoulder members attached to said plates and extending rearwardly therefrom, rigid supporting arms for said shoulder members carried by said hames and projecting rearwardly at the sides of said shoulder members, adjustable

connections for the outer ends of said shoulder members to their said supporting arms, traces connected to said hames independently of said shoulder members and their said supporting arms, a neck saddle, a flexible connection for said hames to said neck saddle, and a flexible connection for the lower ends of said hames.

2. A draft collar comprising hames, neck plates secured thereto, shoulder members attached to said plates and extending rearwardly therefrom, rigid supporting arms for said shoulder members carried by said hames and projecting rearwardly at the sides of said shoulder members, traces connected to said hames independently of said shoulder members and their said supporting arms, a neck saddle, a flexible connection for said hames to said neck saddle, and a flexible connection for the lower ends of said hames.

3. A draft collar comprising hames, neck plates secured thereto, shoulder members attached to said plates and extending rearwardly therefrom, rigid supporting arms for said shoulder members carried by said hames and projecting rearwardly at the sides of said shoulder members, adjustable connections for the outer ends of said shoulder members to their said supporting arms, and traces connected to said hames independently of said shoulder members and their said supporting arms.

4. A draft collar comprising hames, neck plates secured thereto, shoulder members attached to said plates and extending rearwardly therefrom, rigid supporting arms for said shoulder members carried by said hames and projecting rearwardly at the sides of said shoulder members, traces connected to said hames independently of said shoulder members and their said supporting arms.

5. A draft collar comprising hames having neck plates near their lower extremities, shoulder members attached to said plates and extending rearwardly therefrom, unyielding shoulder member supports extending from said hames and connected at their rear extremities to the rear ends of the shoulder members, traces connected to said hames independently of said shoulder members and their said supports, and a neck saddle suspended between the hames and pivotally associated therewith.

6. A draft collar comprising hames, plates rigidly mounted on said hames, shoulder members arranged over said plates and secured thereto, and rigid supporting arms to which the rear ends of said shoulder members are adjustably secured, said hames being provided with trace connections independent of said shoulder members and their said supporting arms.

7. In a draft collar, the combination of the hames, shoulder members secured thereto, supports for said shoulder members mount-

ed on said hames and extending rearwardly therefrom, the rear ends of said shoulder members being adjustably secured to their said supports, and traces connected to said hames independently of said shoulder members and their said supports.

8. A draft collar comprising hames, shoulder members extending rearwardly therefrom, shoulder member supporting arms carried by said hames and projecting rearwardly therefrom at the sides of the shoulder members, and adjustable connections for the outer ends of said shoulder members to their said supports whereby said shoulder members may be adjusted independently of the traces and are retained in their adjusted positions.

9. A draft collar comprising hames, shoulder members secured at their forward ends thereto, supports for the rear ends of said shoulder members carried by said hames, and traces connected to said hames independently of said shoulder members and their said supports.

10. In a draft collar, the combination of the hames, shoulder members secured thereto and extending rearwardly therefrom, supports for said shoulder members mounted on said hames, the rear ends of said shoulder members being secured to their said supports, and trace connections to said hames independent of said shoulder members and their said supports.

11. In a draft collar, the combination with the hames, of shoulder members secured to the hames and extending rearwardly therefrom, an anchor secured to the rear side of each hame, each of said anchors having sockets therein, rigid outwardly and rearwardly projecting shoulder member supports adapted to be fitted within said sockets, wedges interposed within each of said sockets between said supporting members and the walls of the sockets, and bolts passing through said hames, anchors, supporting members and wedges, substantially as and for the purpose specified.

12. A draft collar comprising hames, shoulder members, supports for said shoulder members carried by said hames, blocks carried by said shoulder members, links on

said blocks, and clips on said supporting members adapted to adjustably support said links and retain them in their adjusted positions.

13. A draft collar comprising hames, shoulder members secured at their forward ends thereto, supports for the rear ends of said shoulder members carried by said hames, a link connection for the rear ends of said shoulder members to said supports, and traces connected to said hames independent of said shoulder members and their said supports.

14. A draft collar comprising hames, shoulder members secured at their forward ends thereto, supports for the rear ends of said shoulder members carried by said hames, said supports being rigidly and adjustably mounted on said hames, and traces connected to said hames independently of said shoulder members and their said supports.

15. In a horse collar, the combination of the hames, shoulder members secured thereto and extending rearwardly therefrom, supports for said shoulder members mounted on said hames, the rear ends of said shoulder members being adjustably secured to their said supports whereby said shoulder members may be adjusted to conform the same and are supported in their conformed position, and trace connections to said hames independent of said shoulder members and their said supports.

16. In a horse collar, the combination of the hames, shoulder members secured thereto and extending rearwardly therefrom, supports for said shoulder members mounted on said hames, the rear ends of said shoulder members being adjustably secured to their said supports whereby said shoulder members may be adjusted to conform the same and are positively supported in their conformed position.

17. A horse collar comprising shoulder members arranged at each side, and means for adjusting the curvature of said shoulder members and positively supporting the same in their adjusted positions.

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Witnesses:

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