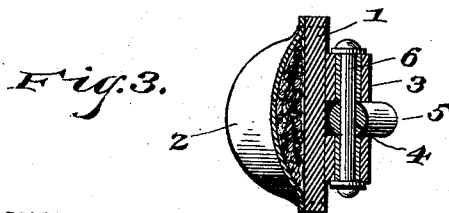
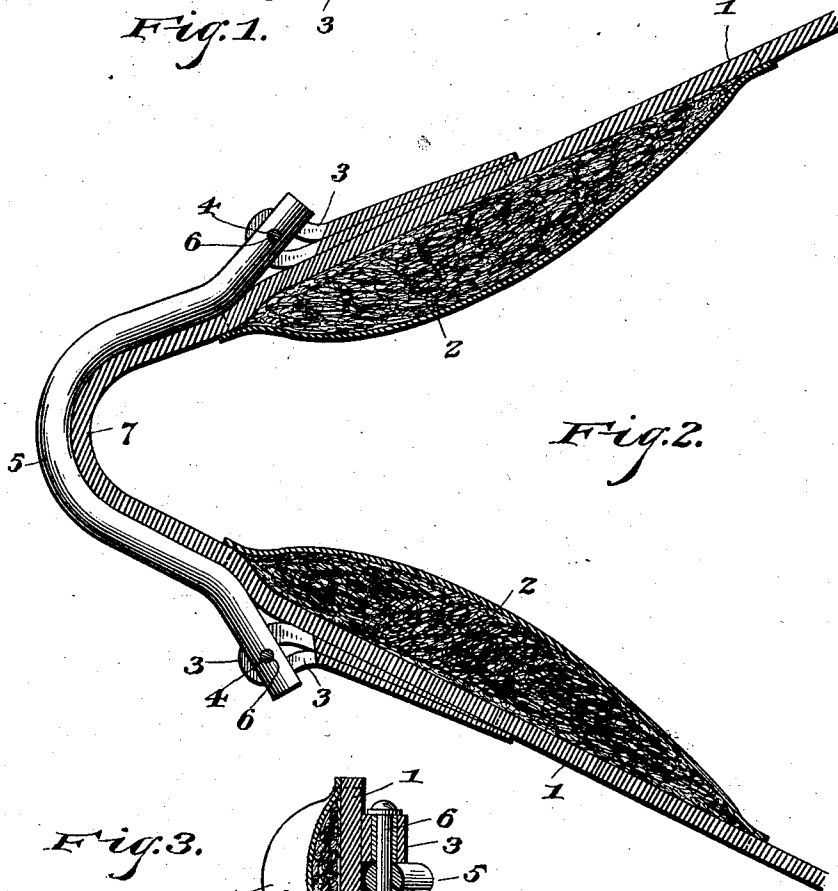
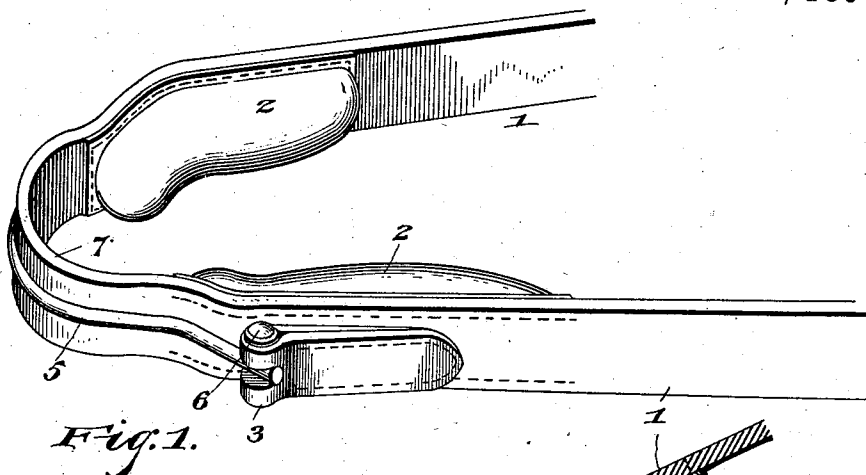


(No Model.)

C. H. RUSSELL.
BREAST STRAP FOR HARNESS.

No. 531,569.

Patented Dec. 25, 1894.



Ingvenlör

Charles H. Russell,

By *his* Attorneys,

Witnesses

B. S. Chas.
W. S. Duvall.

Chas. Snow & Co

UNITED STATES PATENT OFFICE.

CHARLES H. RUSSELL, OF ENNIS, TEXAS.

BREAST-STRAP FOR HARNESS.

SPECIFICATION forming part of Letters Patent No. 531,569, dated December 25, 1894.

Application filed September 5, 1893. Serial No. 484,866. (No model.)

To all whom it may concern:

Be it known that I, CHARLES H. RUSSELL, a citizen of the United States, residing at Ennis, in the county of Ellis and State of Texas, have invented a new and useful Breast-Strap for Harness, of which the following is a specification.

My invention relates to improvements in harness; and has special reference to that part thereof termed the breast-strap.

The objects of the invention are to produce a breast-strap so constructed as to obviate pressure on the windpipe of the horse and to transfer such pressure to the shoulders; to obviate chafing or rubbing of the breast-strap upon the shoulders, and to permit them to move freely in advance of each other as a result of the movements of the horse.

With these and other objects of the invention in view the same consists in certain features of construction hereinafter specified, and particularly pointed out in the claim.

Referring to the drawings:—Figure 1 is a perspective view of a portion of a breast-strap embodying my invention. Fig. 2 is a horizontal section thereof; Fig. 3, a vertical transverse sectional view through the breast-strap and its connection with the arch.

Like numerals of reference indicate like parts in all the figures of the drawings.

The breast-strap 1, is constructed in a single piece, that is, is capable of extending entirely across and to the opposite sides of the animal. At points at each side of its center, the strap is provided at its inner side with pads 2 designed to bear against the shoulders of the horse. Opposite these pads and to the exterior of the breast-strap leather loops 3, are provided and each leather loop is connected to the perforated end 4 of a U-shaped arch 5, by means of a pin or pintle 6 passing downwardly through the leather loop and the eyes or perforations of the arch.

It will be seen that the extremities of the arch are flared or diverged so that they bear upon the breast strap only at points opposite the pads.

It will be observed that the surplus of strap lying between the ends of the arch takes within the arch thus forming a loop 7 which, when the strap is in position, holds aloof from the wind-pipe of the animal and avoids any shortness of breath that might otherwise occur as a result of pressure by the breast-strap. It will furthermore be seen that by reason of the surplus of material at this point there is a loose movement, hinge-like in its nature between the arch and strap, and that, inasmuch as the strap and arch are connected in the manner shown, no reciprocation or transverse movement of the strap against the breast of the animal can take place.

Having described my invention, what I claim is—

As an improved article of manufacture, a breast-collar comprising a continuous strap, arched in front to extend around and fit the horse's neck and provided with pads on its inner side in rear of the arched portion, loops or clips on the exterior surface of the strap adjacent to the front ends of the pads, and an arched metal tree with vertical holes through its ends, and lying immediately adjacent to the strap and connected by vertical pivots with the loops or clips, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

CHARLES H. RUSSELL.

Witnesses:

A. H. DUNKERLEY,
CHAS. M. LATIMER.