

(No Model.)

A. G. & J. C. COX & J. B. CARROLL.
PLOW HARNESS.

No. 470,549.

Patented Mar. 8, 1892.

FIG. 1.

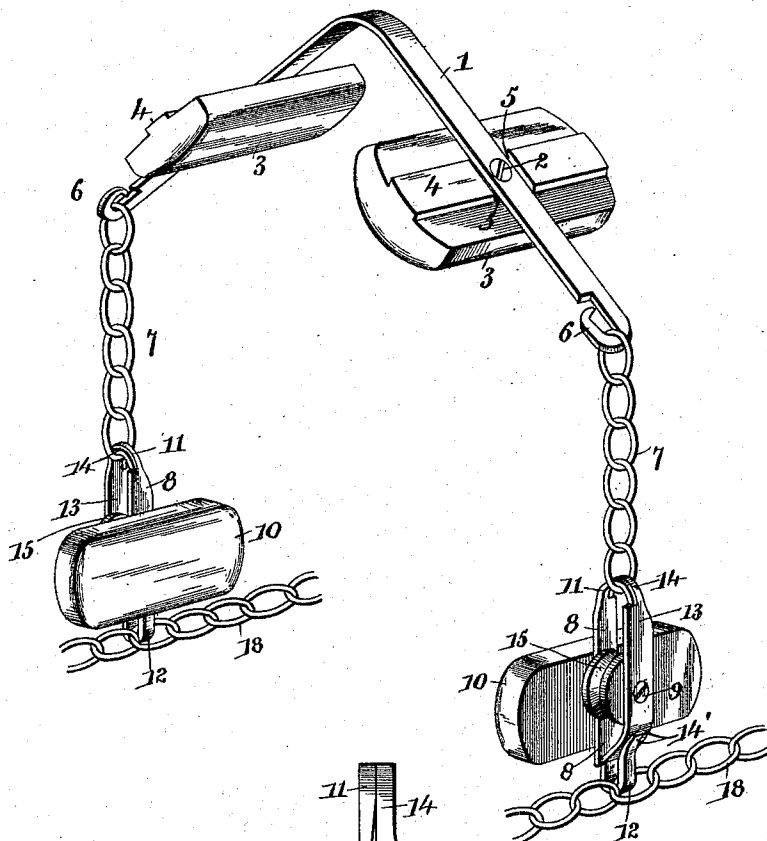
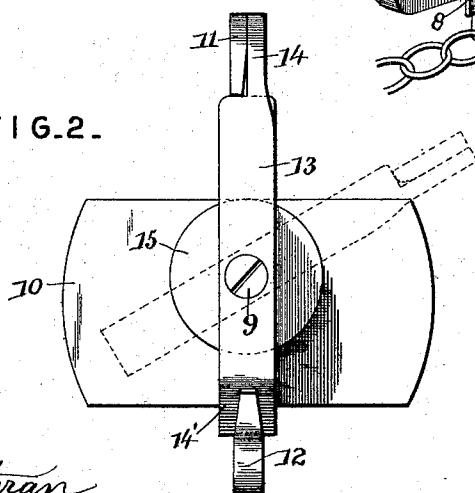


FIG. 2.



Witnesses:

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By their Attorneys,

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UNITED STATES PATENT OFFICE.

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PLOW-HARNESS.

SPECIFICATION forming part of Letters Patent No. 470,549, dated March 8, 1892.

Application filed November 12, 1891. Serial No. 411,737. (No model.)

To all whom it may concern:

Be it known that we, AMOS G. COX, JOHN C. COX, and JOSHUA B. CARROLL, citizens of the United States, residing at Winterville, in the county of Pitt and State of North Carolina, have invented a new and useful Plow-Harness, of which the following is a specification.

This invention relates to improvements in plow harness, saddles, or back-bands; and the objects in view are to provide a light strong durable device adapted to be applied to the backs of animals employed in connection with plows and other heavy agricultural implements, which devices shall be so constructed as to avoid any chafing, rubbing, or other injury to the animal's back, and which is designed to act as a rein-holder and trace-chain carrier.

Various other objects and advantages of the invention will appear in the following description, and the novel features thereof will be particularly pointed out in the claims.

Referring to the drawings, Figure 1 is a perspective of a back-band or saddle constructed in accordance with our invention. Fig. 2 is a detail in elevation of one of the suspended trace-carrying rein-guiding attachments.

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

1 designates a metal strap of suitable thickness, the same being bent to an inverted-V shape, so as to approximate the back of a horse, and said strap between its bent center and ends has its opposite terminals secured by screws 2 to the outer sides of a pair of wood pads 3. These pads have their inner faces convexed and upon their outer sides are provided with a superficial rim 4, recessed at its center, as at 5, the recess being wider than and receiving the metal strap, whereby the pads are adapted for limited play or oscillations upon the screws 2, and hence are capable of movement with the shoulders of the horse, so that any rubbing from the pads by reason of such movement of the horse is obviated. The extremities of the metal strap are reduced and upwardly bent to form hooks 6, in each of which a chain 7 is adjustably suspended—that is to say, the length of the chain

may be increased or decreased by the insertion of the various links thereof into the hooks.

A metal plate 8 is secured by a screw 9 to a wooden pad 10, and the upper end of the plate is cut away at one side and bent to form a hook 11, while the lower end of said plate is bent to form the curved flared hook 12. A second metal plate 13 is mounted upon the screw 9 and has its inner face cut away to accommodate the hook 11 of the plate 8, and is also bent at its upper end to form a hook 14, which corresponds with the hook 11 of the plate 8. The lower end of the plate 13 is inwardly bent at 14', so as to engage or be sprung under the hook 12 of the plate 8. Upon the screw 9 a grooved wheel 15 is mounted for rotation, said wheel being located between the two plates 8 and 13, the inner one of which is fixed, while the outer one thereof is swiveled. A pair of hangers thus constructed have their upper ends engaged with the lower ends of the short chains 7, and hence by the adjustment of the chains may be raised and lowered. In practice the reins are passed between the two plates, which constitute a loop for supporting the reins, thus preventing them from falling beneath the horse's feet or becoming entangled with portions of the harness. The loose pulleys afford a means over which the reins may readily ride without any great amount of wear and tear and twisting which usually comes from passing the reins through ordinary rings. A trace-chain 18 may have one of its links engaged with the lower hooks 12 of the plates 8, and when the swiveled plate is swung to a closed position with relation to the fixed plate a suitable carrier for the trace-chain is formed. The pads 10 prevent the rubbing of the chain or the combined chain and rein-carrier against the sides of the horse, and thus obviate the unsightliness occasioned by the removal of hair from his hide.

From the foregoing description it will be seen that we provide a combined back-band and saddle of great simplicity, strength, durability and lightness, one in which there are no small connecting parts liable to get out of order or disarranged; that the movements of the horse are all conformed to, and hence no chafing, sore backs, &c., will occur, and

that, in addition to preserving the shape and increasing the durability of the reins, an adjustable efficient trace-carrier is formed and the trace-chains and other pendent portions of the back-strap are preserved from contact with the body of the horse.

Having described our invention, what we claim is—

1. The inverted-V-shaped metal back-band having the pads provided with longitudinal ribs on their outer sides, said ribs being recessed to accommodate the back-band and pivoted at said recessed portions, hooks at the lower ends of the back-band, and a loosely-connected combined trace-carrier, rein-guide, and pad at its outer ends, substantially as specified.

2. The inverted-V-shaped metal back-band provided at opposite sides of its center with pads and provided at its ends with chains, combined with the combined trace-carrier and rein-guides, each of the same consisting of the opposite metal plates 8, terminating at its upper and lower ends in outwardly-extending hooks 11 and 12, respectively, the outer plate 13, terminating at its upper and lower ends in inwardly-disposed hooks 14 and 14', respect-

ively, the former overlapping the hook 11 of the plate 8 and the latter hook taking in rear of the hook 12 of said plate, the pivot-screw 9, passing through the two plates, the pulleys loosely mounted on the screw between the plates, and the pads secured to the inner sides of the plates 8, substantially as specified.

3. The inverted-V-shaped metal back-band terminating at its ends in hooks, combined with short chain-sections adjustably mounted in the hooks, metal rein-guiding and chain-carrying loops connected to the lower ends of the chains, and wooden pads secured to the inner sides of the loops and pivotally secured to the inner sides of the back-band at each side of the center thereof, substantially as specified.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in the presence of two witnesses.

AMOS G. COX.

JOHN C. COX.

JOSHUA B. CARROLL.

Witnesses:

PETER H. KITTRELL,

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