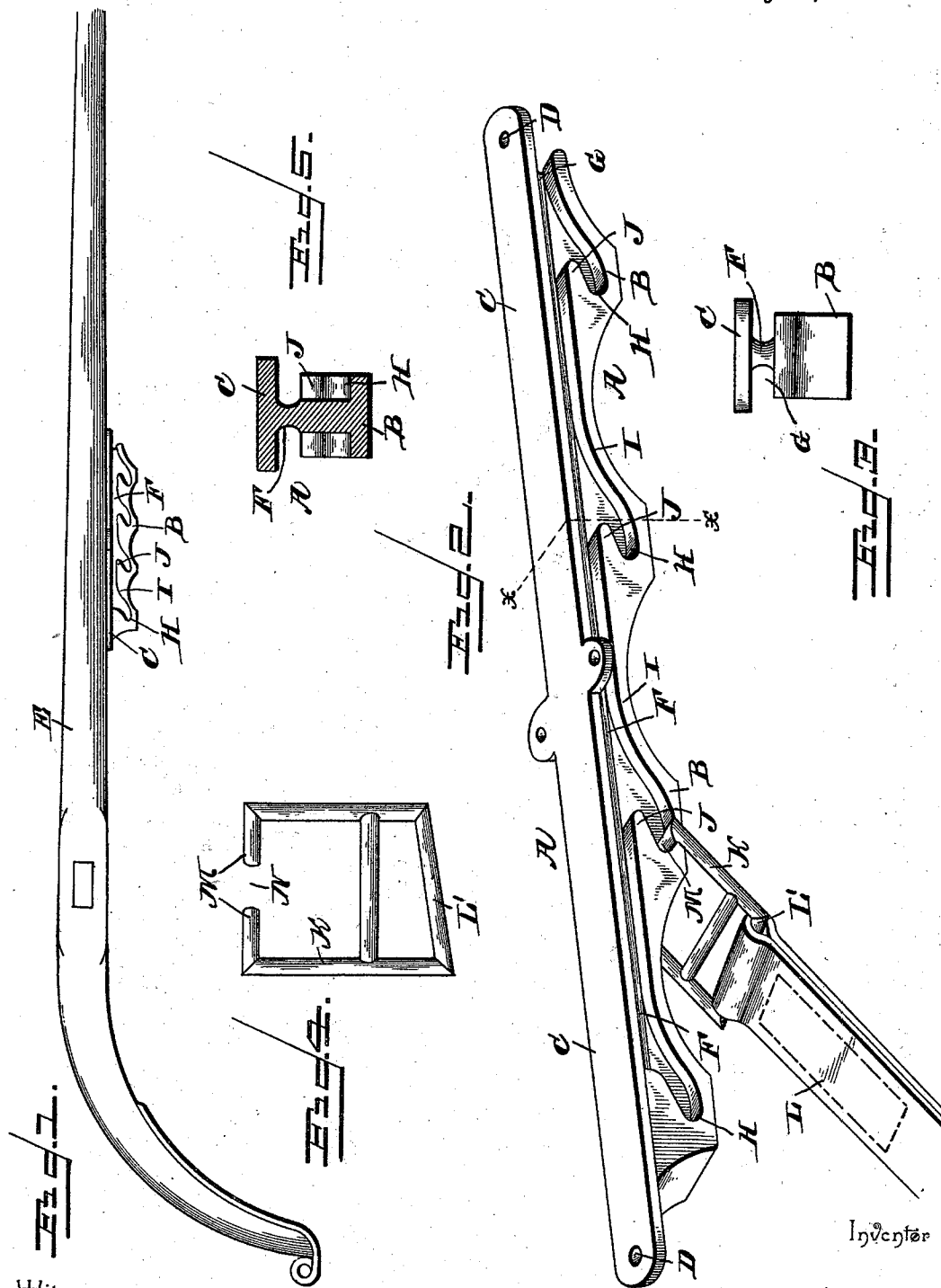


(No Model.)

D. WARNER.
HOLDBACK.

No. 519,363.

Patented May 8, 1894.



Witnesses
E. H. Stewart
S. P. Chapman

By *his* Attorneys, *Daniel Warner*

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UNITED STATES PATENT OFFICE.

DANIEL WARNER, OF BRONSON, ASSIGNOR OF TWO-THIRDS TO WILLIAM D. HOUSE AND PETER WOMER & SON, OF BUCHANAN, MICHIGAN.

HOLDBACK.

SPECIFICATION forming part of Letters Patent No. 519,363, dated May 8, 1894.

Application filed January 8, 1894. Serial No. 496,085. (No model.)

To all whom it may concern:

Be it known that I, DANIEL WARNER, a citizen of the United States, residing at Bronson, in the county of Branch and State of Michigan, have invented a new and useful Holdback, of which the following is a specification.

This invention relates to holdbacks; and it has for its object to effect certain improvements in the construction of holdback irons and the manner of connecting the holdback strap therewith, whereby simple and efficient means shall be provided for quickly and easily adjusting the holdback strap according to the size of a horse, the length of the holdback strap, or other condition of the harness, as well as to provide means whereby the holdback strap will automatically detach itself from the holdback iron in the event of the tugs or traces becoming detached, and in this function the holdback is self adjusting.

With these and other objects in view, which will readily appear as the nature of the invention is better understood, the same consists in the novel construction, combination, and arrangement of parts hereinafter more fully described, illustrated, and claimed.

In the accompanying drawings:—Figure 1 is a side elevation of a holdback constructed in accordance with this invention shown attached to a thill or shaft. Fig. 2 is a detail perspective view of the holdback iron detached from the shaft with the holdback strap link in engagement therewith. Fig. 3 is a detail end view of the holdback iron. Fig. 4 is a detail in perspective of the connecting link fastened to one end of the holdback strap. Fig. 5 is a detail sectional view on the line $x-x$ of Fig. 2.

Referring to the accompanying drawings, A represents a holdback constructed in accordance with this invention, the same consisting of an elongated catch bar B, provided at its upper edge with a widened attachment flange C, provided at suitable points with the screw holes D, to receive screws or other suitable fastening devices for attaching the holdback iron to a thill or shaft E, as illustrated in Fig. 1, of the drawings.

The elongated catch bar B, is constructed of suitable strength material and in any de-

sired length to provide as many adjustments as desired, and such bar is provided on both sides thereof, directly under its attachment flange, with the rounded or concaved slide grooves F, extending longitudinally of the bar nearly its entire length and leading into end openings G, at the front extremity of the catch bar, to provide means for connecting the holdback strap with the holdback iron in the manner to be presently described.

At the bottom sides of the longitudinal slide grooves F, on both sides of the catch bar B, the same is provided with a regularly spaced series of hook catch notches H, provided at their forward sides with the curved shoulders I, which lead thereinto, and which are partly inclosed at the top by the short hook projections J, which serve to retain within the notches the strap connecting link K, secured to one end of an ordinary holdback strap L, which is connected with the breeching of the harness as usual.

The strap connecting link K, is provided with an inclined or angled bar L', which fastens to the holdback strap, while at the opposite end the said connecting link is provided with the inturned catch ends or tongues M, which terminate short of each other leaving a space N, there-between, slightly greater than the width of the catch bar B, between the opposite side grooves thereof.

In connecting the holdback strap with the holdback, the strap connecting link K, is placed in position at the front end of the holdback iron, and the inturned catch ends M, are inserted through the end entrance openings G, into the opposite slide grooves F, in which grooves the catch ends M, of the connecting link may be slid the entire length of the holdback iron so as to be placed in engagement with any of the hook or catch notches H, to secure the proper adjustment of the holdback strap. By reason of shaping the strap connecting link K, with an inclined or angled end bar L, it will readily be seen that the side pull or draft of the holdback strap is overcome, thereby providing for an equal pull or draft on the catch ends M, of the link K, whereby said link will not cramp or bind in the holdback iron, and may be easily adjusted. The short hook projections J, over-

hanging the catch notches H, serve to hold the ends of the connecting link properly in position, but when the trace or tug should happen to become detached it will be apparent that the inturned catch ends M, of the connecting link, will ride freely over the curved shoulders I, and in the grooves F, until the same pass through the end openings G, and become automatically detached or disconnected from the holdback iron.

Changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the principles of this invention.

Having thus described the invention, what is claimed, and desired to be secured by Letters Patent, is—

1. A holdback iron having catch notches on both sides, combined with a strap connecting link having catch tongues adapted to engage said notches, substantially as set forth.

2. A holdback iron consisting of an elongated catch bar provided on both sides with longitudinal grooves and catch notches in the base or bottom sides of said grooves, and the strap connecting link having inturned catch tongues adapted to slide in said grooves and engage any of said notches, substantially as set forth.

3. A holdback consisting of an elongated catch bar provided with an attachment flange, longitudinal rounded or concaved slide

grooves on both sides thereof and leading into end openings at one end of the bar, and a series of catch notches in the base or bottom sides of said grooves, and the strap link having catch tongues adapted to be inserted through said end openings into said grooves for engagement with any of said catch notches, substantially as set forth.

4. An elongated holdback iron having longitudinal slide grooves at both sides, and hook catch notches in the base or bottom sides of said grooves, said notches having curved shoulders at their forward sides and overhanging hook projections, and the connecting link adapted to engage the notches at both sides of the iron, substantially as set forth.

5. The combination of a holdback iron having catch notches on both sides, and a strap connecting link provided with an inclined or angled end bar adapted to be connected to a holdback strap and at its opposite end with inturned catch ends terminating short of each other and adapted to engage the notches of the holdback iron, substantially as set forth.

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

DANIEL WARNER.

Witnesses:

R. T. VAN VALKENBURG,
N. H. BACON.