R. W. Carrier.
Hold Back.

No. 26,476. Patented Dec. 20, 1859.

Fig. 1.

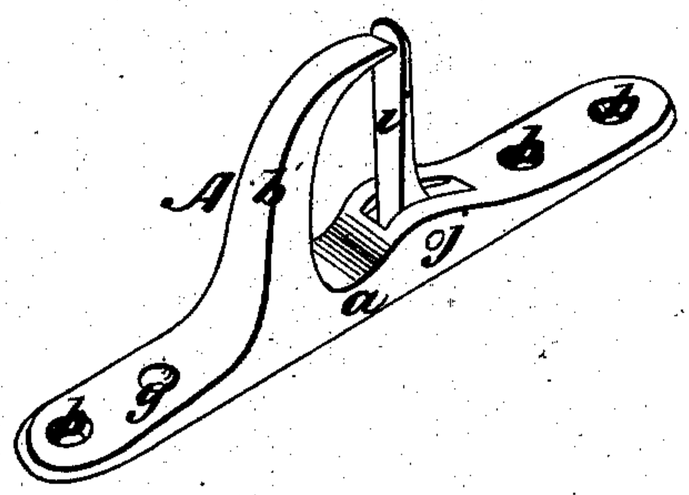
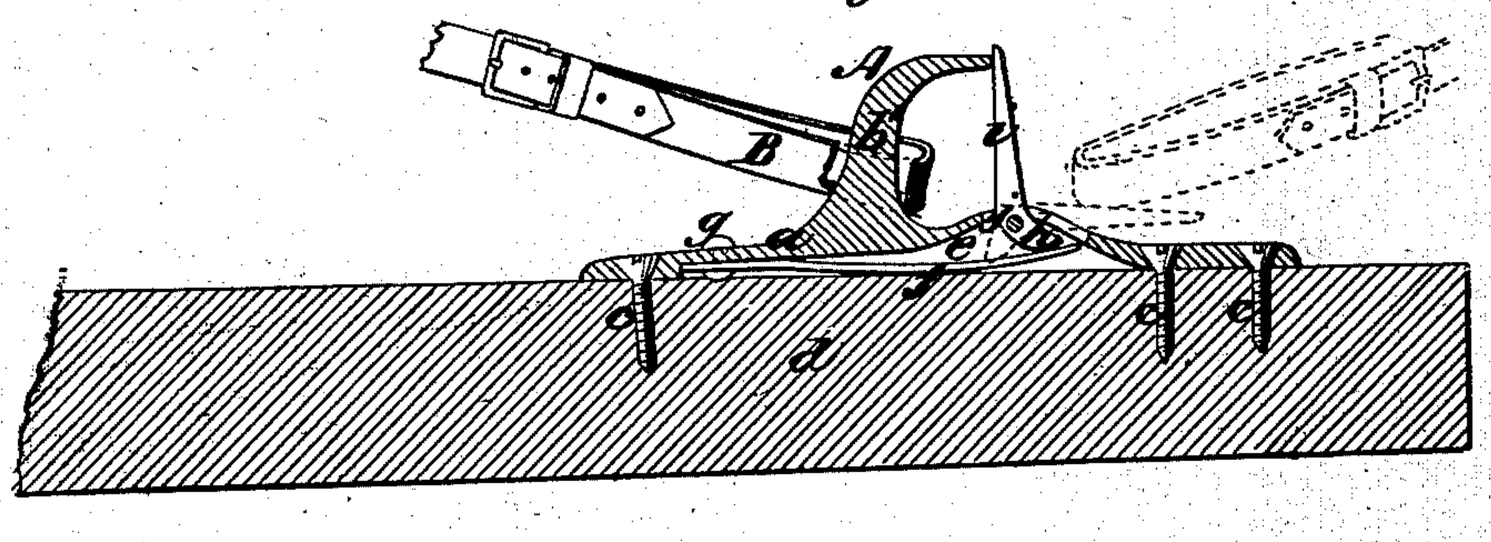


Fig. 2.



Witnesses:

Richard L. Buell

David C. Breese.

Inventor:

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UNITED STATES PATENT OFFICE.

R. W. CARRIER, OF SHERBURNE, NEW YORK.

HOLDBACK.

Specification of Letters Patent No. 26,476, dated December 20, 1859.

To all whom it may concern:

Be it known that I, R. W. CARRIER, of Sherburne, in the county of Chenango and State of New York, have invented a new and useful Improvement in Holdbacks for Vehicles that are Drawn by Horses; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1, is a detached perspective view of my invention. Fig. 2, is a longitudinal central section of ditto attached to a thill of a vehicle.

Similar letters of reference indicate corresponding parts in the two figures.

Before stating the nature of my invention, I deem it proper to remark that I am aware that Aaron Parker obtained a patent on a hold-back for retaining the breeching of harness, and that said hold-back is designed to effect the same object as is accomplished by my invention.

To Parker's hold-backs there are objections; for when the horse is set free, the breeching strap in passing out of the hold backs is pressed upon by the spring portions of the same in such a manner that it is liable to hang in the same, especially if it is stiff, and thus not allow a ready and free escape to the horse, and consequently if he has previously been frightened from a sudden fall or from other cause, the chances are, he will begin to rear and pitch and in doing so seriously damage the vehicle to which he is partially connected. Another objection is this, they always remain closed whether the breeching straps are in or out of the loops or eyes and therefore whenever it is desired to reinsert the breeching strap the springs have to be lifted with one hand and the strap inserted with the other, to do which is quite a job if the strap is stiff and the weather is cold and only one person at hand to perform the operation.

The nature of my invention consists in the combination and arrangement of the open hold back loop or eye pivoted lever stop bar which has an extension wheel on its lower end, and the flat spring, in the manner and for the purpose hereinafter set forth.

With my invention, it will be seen that the breeching strap is released the moment it comes in contact with the stop bars, for said bars not only yield to its force instantly and thus open the eye, but also act with it as levers to overcome the resistance of the spring which at a certain time holds the bars opposite the eyes, but when the heel of the stop bar passes back of the fulcra on which the bar turns, aid in forcing the stop bars down out of the way of the breeching strap and retain them in proper position for a reintroduction of the breeching strap, when the cause of the delay has been managed. Thus it will be seen that my arrangement allows a more free escape of the breching strap and also a more ready reintroduction of the same than do the holdback loops or eyes of A. Parker; mine opening instantly and remaining open for the introduction of the breeching strap; his opening gradually and then closing again.

To enable those skilled in the art to fully understand and construct my invention I will proceed to describe it.

A, represents a loop or eye which is of metal and is formed of a plate *a*, provided with holes *b*, through which screws *c*, pass to secure it to the thills *d*. On the upper surface of the plate *a*, there is a hooked projection *b′*, and in the under side of the plate *a*, there is a recess *e*, in which a spring *f*, is placed and secured by a rivet *g*. This spring is of the ordinary flat kind and its front end bears against a projection *h*, at the lower end of a bar or stud *i*, which is pivoted in the plate *a*, as shown at *j*, and has its upper end bearing against the upper end of the hooked projection *b′*, the spring *f*, keeping the upper end of the bar or stud against said projection, as shown clearly in both drawings.

It will be seen from the above description that the hooked projection *b′*, and the bar or stud *i*, form a loop or eye to receive the hold back strap B, the projection *b′*, sustaining the strain, see black lines Fig. 2. The strap B, therefore may be slipped into the loop by merely shoving forward the stud *i*. It will also be seen that as the horse passes out from between the thills the straps B, will detach themselves the stud *i*, yielding to permit the straps to pass out from the loops, as shown in red. By this invention the straps do not require to be unbuckled as hitherto in order that they may be fastened in the loops, and in case a horse becomes restive and unmanageable all that is required to detach him from the

vehicle is to release the traces from the whiffletree. Consequently many accidents will be avoided that have hitherto occurred by the positive connection of the hold back straps with the thills.

What I claim as my invention and desire to secure by Letters Patent is—

The combination and arrangement of the open hold-back loop or eye, pivoted lever stop-bar which has an extension or heel on its lower end, and the flat spring, substantially as and for the purposes set forth.

R. W. CARRIER.

Witnesses:

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