S. BLODGETT.

HOLDBACK STRAP ADJUSTER.

APPLICATION FILED JULY 20, 1909.

983,972.

Patented Feb. 14, 1911.

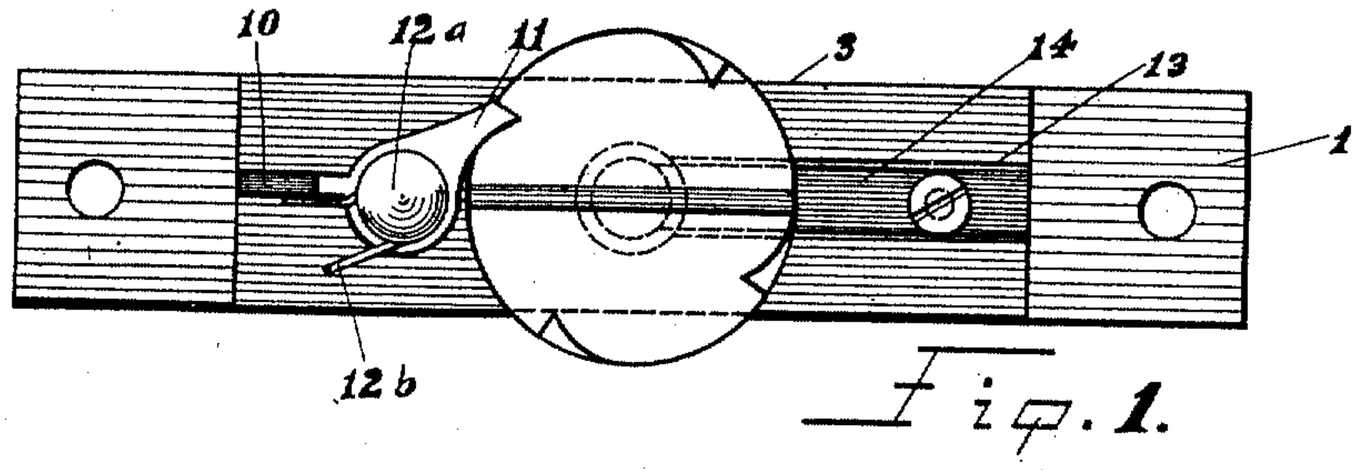


Fig. 1.

Fig. 7.

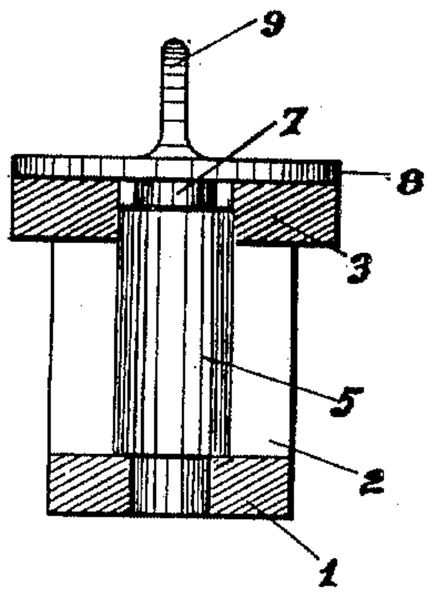


Fig. 2.

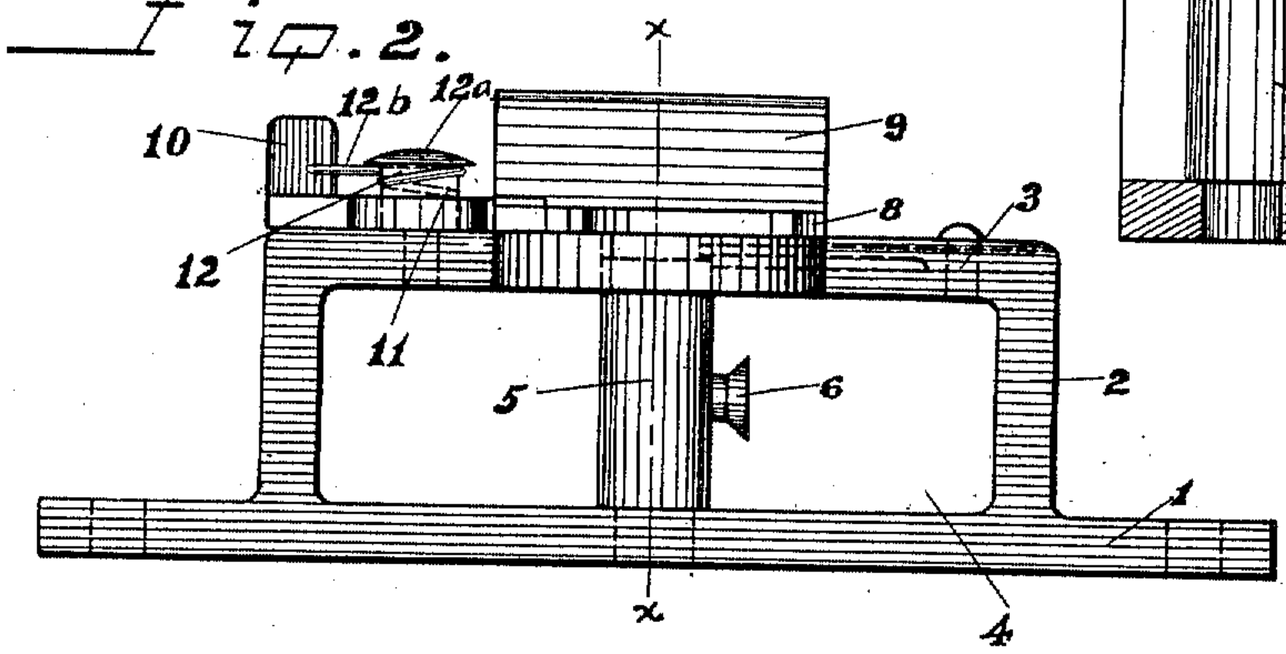


Fig. 3.

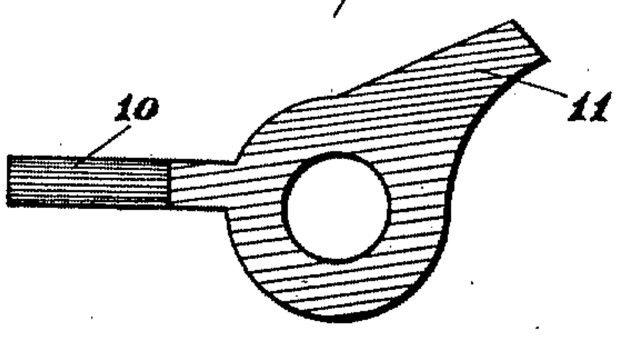


Fig. 5.

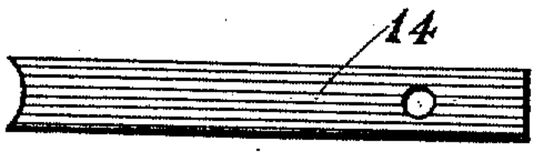


Fig. 4.

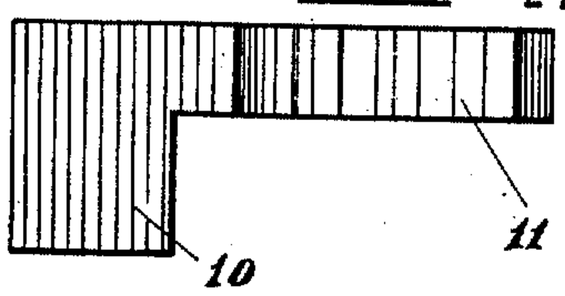
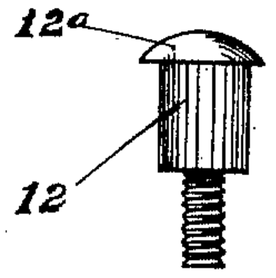


Fig. 6.



Witnesses
Wm. B. Griffin.
E. B. Sudbrink

Inventor
Samuel Blodgett.
By Barney & Sudbrink
Attorney

UNITED STATES PATENT OFFICE.

SAMUEL BLODGETT, OF OAKDALE, CALIFORNIA.

HOLDBACK-STRAP ADJUSTER.

983,972. Specification of Letters Patent. **Patented Feb. 14, 1911.**

Application filed July 20, 1909. Serial No. 508,625.

To all whom it may concern:

Be it known that I, SAMUEL BLODGETT, a citizen of the United States, residing at Oakdale, in the county of Stanislaus and State of California, have invented certain new and useful Improvements in Holdback-Strap Adjusters; and I do declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the characters of reference marked thereon, which form a part of this application.

This invention relates to improvements in harness and particularly to buggy harness, the object of the invention being to produce a hold back strap and adjuster therefor, whereby the length of the strap can be quickly and readily adjusted to the proper degree to give the best results and to present a trim and neat appearance as is necessary, especially with livery teams.

A further object of the invention is to produce a simple and inexpensive device and yet one which will be exceedingly effective for the purposes for which it is designed.

These objects I accomplish by means of such structure and relative arrangement of parts as will more fully appear by a perusal of the following specification and claims.

In the drawings similar characters of reference indicate corresponding parts in the several views.

Figure 1 is a top plan view of the complete device. Fig. 2 is a side elevation of the same. Fig. 3 is a top plan view of a ratchet dog. Fig. 4 is a side elevation of the same. Fig. 5 is a top plan view of a retaining spring member. Fig. 6 is a side elevation of a spring retaining pin. Fig. 7 is a sectional view taken on a line *x*—*x* of Fig. 2.

Referring now more particularly to the characters of reference on the drawings 1 designates a plate adapted to be secured to the shaft of a vehicle, such plate having projecting arms 2 carrying an outer cross plate 3, forming an intermediate space 4. Journaled in the member 1 and 3 and projecting across the space 4 is a roller 5 to which the hold back strap may be secured by means of a set screw or other binding means 6.

Formed as a part of a shoulder 7 on the roller 5 on the outside of the member 3 is a ratchet wheel 8 carrying a central outwardly projecting thumb flange 9, such thumb flange being operated to turn said roller 5 to wind or unwind the hold back strap on said roller, thereby lengthening or shortening the said hold back strap as is desired. A ratchet dog 11 is pivotally mounted on a supporting pin 12 having a top flange 12^a, said pin being screwed into the frame 3, said dog normally engaging said ratchet wheel 8 there being a coil spring 12^b disposed around the pin 12 bearing against a finger member 10 on said dog, said spring operating to keep the ratchet dog 11 normally in engagement with the ratchet wheel 8 while the same is being turned forward as described, the finger member 10 being used to disengage said ratchet dog when the wheel 8 is to be moved backward.

In the member 3 is a longitudinal slot 13 in which is disposed a band spring 14 bearing against the roller 5 around the shoulder 7 to maintain the same in the proper position in the frame 1—2—3 to permit the operation of the same for the purposes for which it is designed.

From the foregoing description it will be readily seen that I have produced such a hold back strap and adjuster as substantially fulfils the objects of the invention as set forth herein in that the strap can be readily and quickly lengthened or shortened and fixed at any point as desired.

While this specification sets forth in detail the present and preferred construction of the device, still in practice such deviations from such detail may be resorted to as do not form a departure from the spirit of the invention.

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

1. A hold back strap adjuster comprising a rectangular frame, a roller mounted freely movable in the sides of said frame and adapted to have a hold back strap secured thereto, a ratchet wheel on said roller, an operating handle on said ratchet wheel, a dog on said frame engaging said ratchet wheel, and a spring holding said dog normally in such engaged position.

2. A hold back strap adjuster comprising a frame, a roller in said frame, a ratchet wheel on said roller, and a thumb flange on said ratchet wheel.

3. A hold back strap adjuster comprising

a frame, a roller carried by said frame, a ratchet wheel on said roller, a thumb flange on said ratchet wheel and a ratchet dog carried by said frame and adapted to engage said ratchet wheel.

4. A hold back strap adjuster comprising a frame, a roller carried by said frame, a ratchet wheel on said roller, a spring bearing between said roller and said ratchet wheel, and means for turning said ratchet wheel.

In testimony whereof I affix my signature in presence of two witnesses.

SAMUEL BLODGETT.

Witnesses:
PERCY S. WEBSTER,
WM. B. GRIFFIN.