

No. 765,303.

PATENTED JULY 19, 1904.

J. W. ADAMS.
BREECHING STRAP HOLDER.

APPLICATION FILED OCT. 9, 1903.

NO MODEL.

Fig. 1.

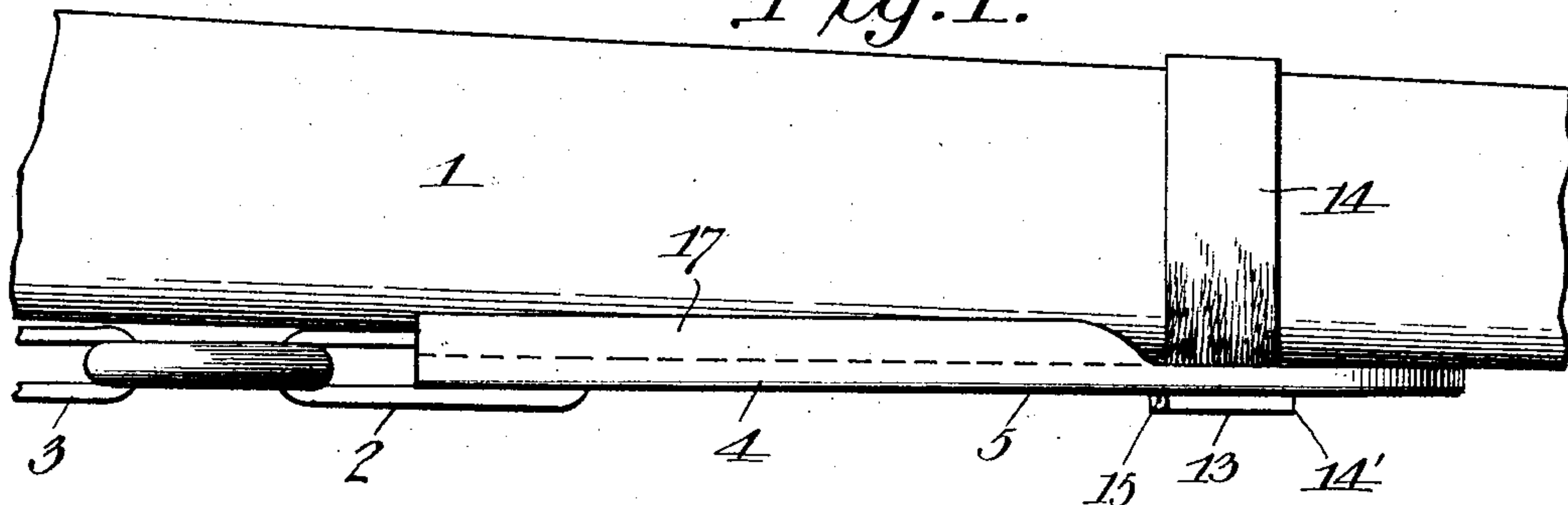


Fig. 4.

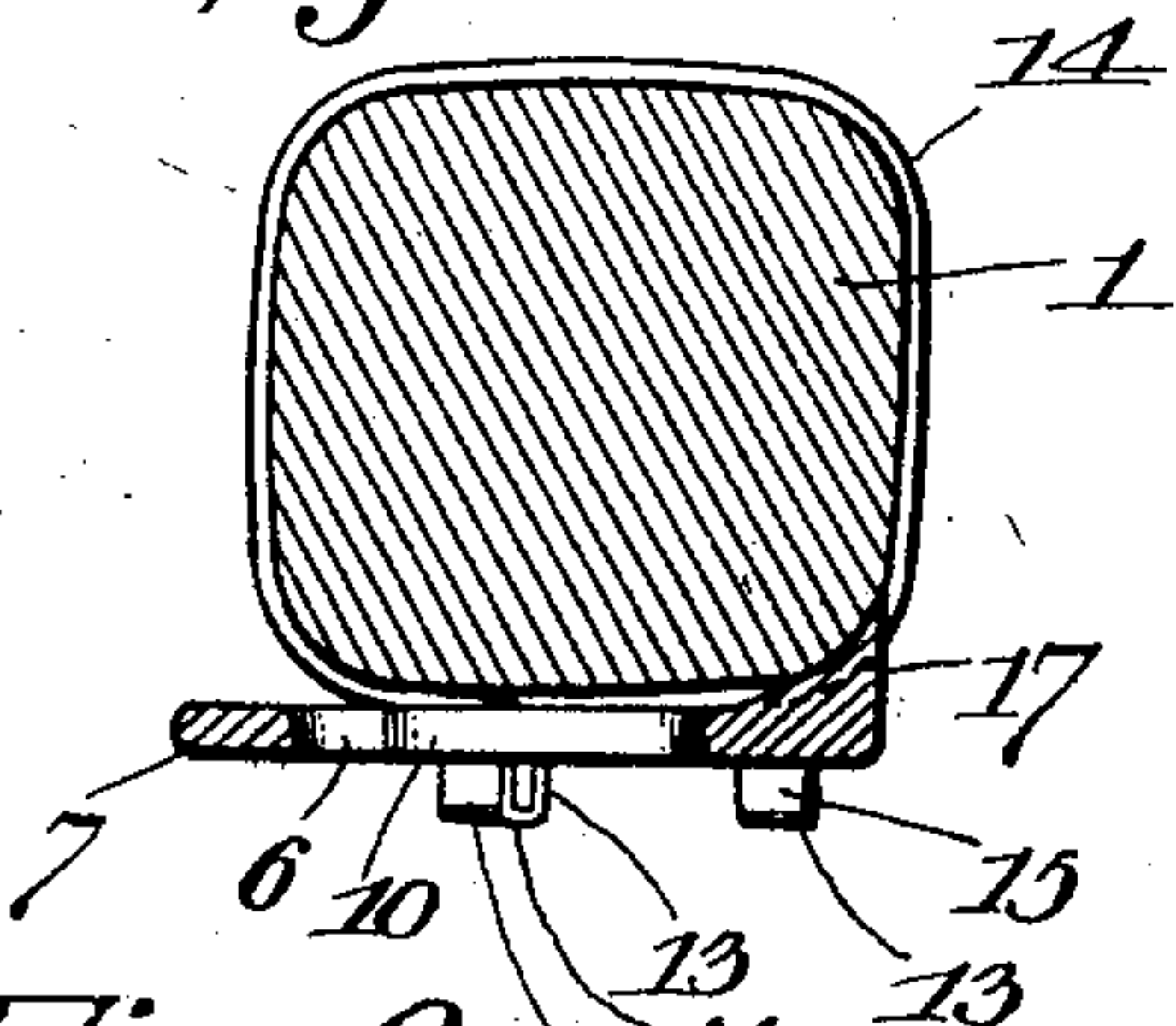


Fig. 2.

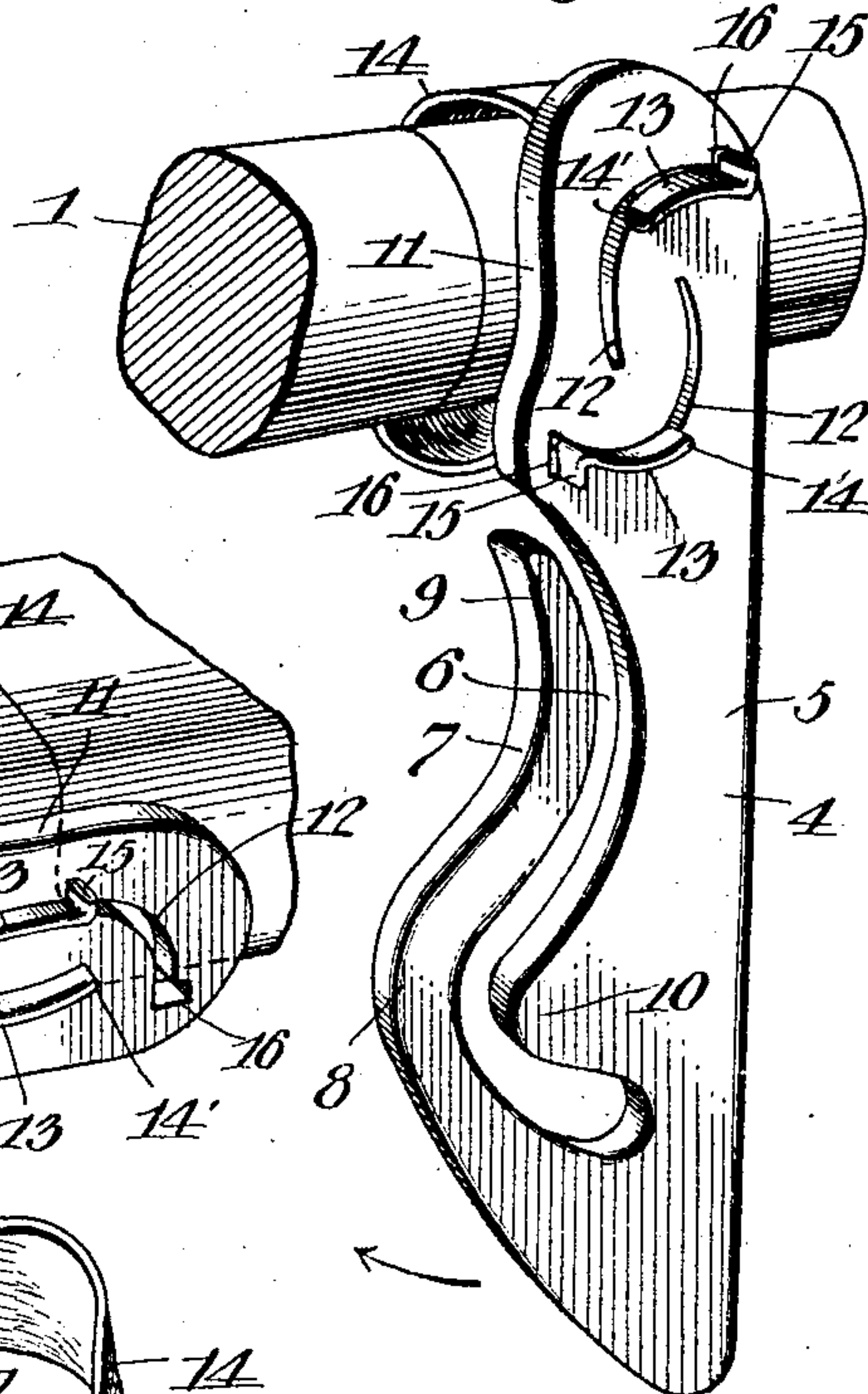


Fig. 3.

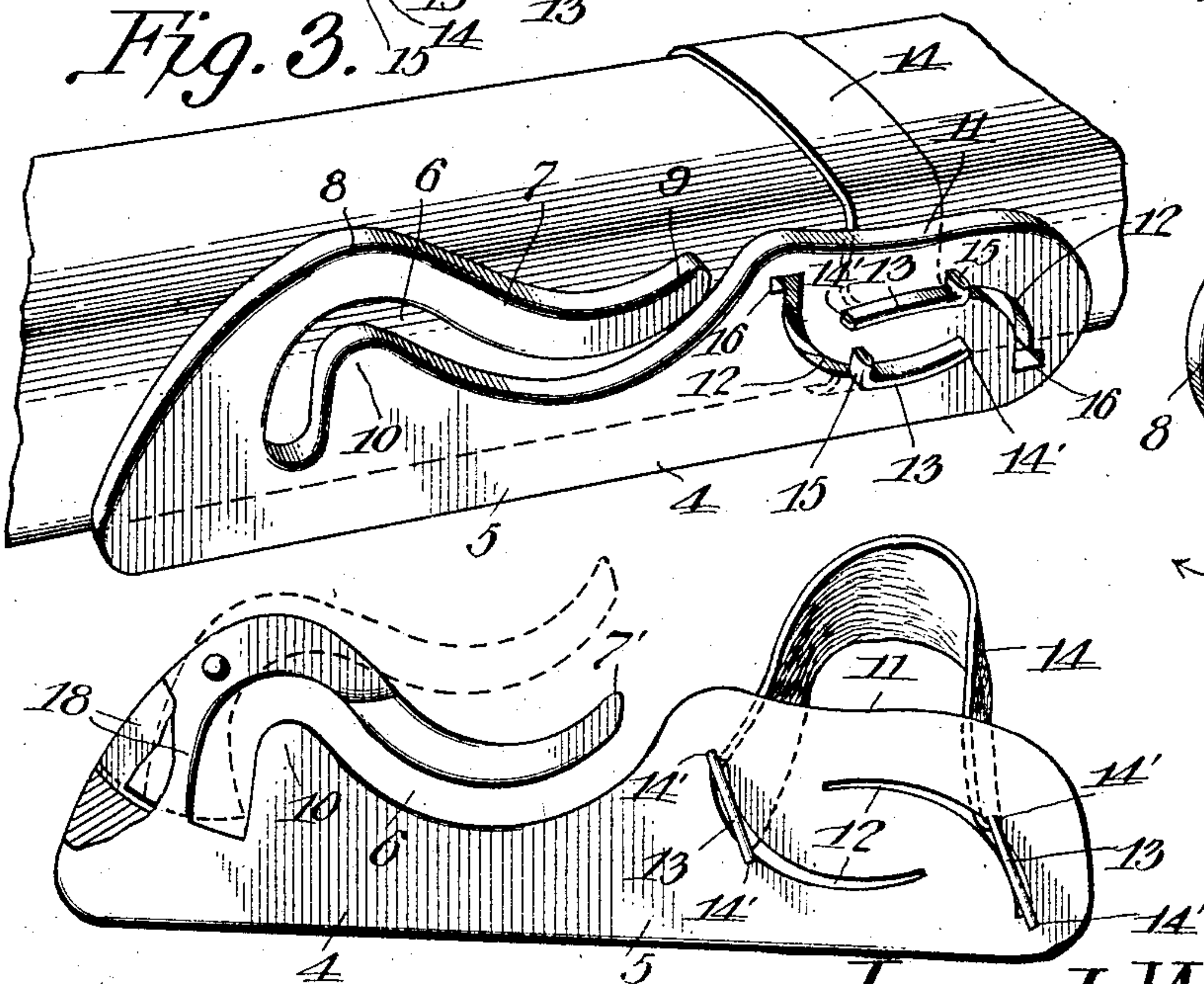


Fig. 5.

Joseph W. Adams,
Inventor.

Witnesses
E. C. Stewart
J. A. Acker

by C. A. Snow & Co.
Attorneys

UNITED STATES PATENT OFFICE.

JOSEPH WALTER ADAMS, OF SANTA ANA, CALIFORNIA.

BREECHING-STRAP HOLDER.

SPECIFICATION forming part of Letters Patent No. 765,303, dated July 19, 1904.

Application filed October 9, 1903. Serial No. 176,435. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH WALTER ADAMS, a citizen of the United States, residing at Santa Ana, in the county of Orange and State of California, have invented a new and useful Breeching-Strap Holder, of which the following is a specification.

This invention relates to an improved holdback or breeching strap retainer, and has for its object to provide a simple, inexpensive, and efficient device of this character adapted to be secured to the thills of a carriage, wagon, or other vehicle and by means of which the breeching-strap may be securely held in position thereon without the employment of snap-hooks, buckles, and similar auxiliary fastening devices.

A further object of the invention is to provide means for detachably securing the holdback to the thills and means whereby the holdback may be adjusted longitudinally on the thills and clamped at any desired position thereon.

A still further object is to provide the holdback with locking grooves or slots adapted to receive the terminal tongues of a retaining-strap, so that when said tongues are introduced in the grooves or slots and the holdback given a quarter-turn it will cause the strap to engage the thill by frictional contact and clamp the holdback in position thereon.

The invention also consists in the construction and novel combination of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended, it being understood that various changes in form, proportion, and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of this invention.

In the accompanying drawings, Figure 1 is a side elevation of a holdback constructed in accordance with my invention. Fig. 2 is a perspective view of the same, illustrating the manner of applying the holdback to the thill. Fig. 3 is a perspective view of the bottom of the thill, showing the holdback clamped in position thereon. Fig. 4 is a transverse sectional view of Fig. 1, and Fig. 5 is a bottom

plan view, partly in section, of a modified form of the invention.

Similar numerals of reference indicate corresponding parts in all the figures of the drawings.

1 designates the thill; 2, the holdback-strap; 3, a portion of the breeching, and 4 my improved holdback. The holdback consists of a flat elongated plate 5, formed of metal or other suitable material, one end of which is provided with a curved slot 6, defining an integral hook 7, adapted to engage the holdback-strap 2. The hook 7 is formed with an enlargement or hump 8 and a laterally-extending curved bill 9, a tongue 10 being formed in the plate directly opposite the hump 8, adapted to prevent accidental displacement of the holdback-strap, as shown. The opposite end of the plate 5 is preferably curved, as shown at 11, and provided with oppositely-directed cam slots or grooves 12, adapted to receive the terminal heads 13, of a retaining band or strap 14. The heads 13 of the strap or band are preferably curved, as shown, to conform to the curvature of the slots 12, one end of each of said heads being extended beyond the strap to form a lip 14', and the opposite end thereof bent at right angles thereto to form a locking-lug 15. The base of the slots or grooves 12 for a distance of slightly more than the width of the strap 14 is made wide enough to permit the easy insertion of the terminal heads 13, the remainder of the slots being preferably only the width of the thickness of the strap, so as to prevent said heads from pulling out when locked in position, as clearly shown in Figs. 2 and 3 of the drawings. Communicating with the base of the slots or grooves 12 are openings 16, adapted to receive the lugs 15, said lugs being adapted to engage the face of the plate 5 and hold the band in position preparatory to locking the holdback to the thill. The plate 5 is provided on its upper side, and at one edge thereof, with an inwardly-tapering rib or thickened portion 17, which extends from one end of the plate to a point adjacent the cam-slots 12, said rib being adapted to bear against the side of the thill and space the hook 7 a short distance therefrom,

so as to facilitate the introduction and removal of the holdback-strap. The tapering rib 17 also prevents lateral displacement of the plate 5 and relieves the fastening of a portion of the strain incident to the backward pull of the draft-animal.

In attaching the holdback to the thill the terminal heads 13 of the retaining-strap are introduced in the cam-slots at the widest portion thereof and given a slight turn, so as to cause the lugs 15 to engage the plate and prevent the straps from becoming accidentally displaced. The strap having the plate 5 attached thereto is then slipped over the end of the thill, with the plate arranged at right angles thereto, as clearly shown in Fig. 2 of the drawings, and said plate adjusted longitudinally on the thill to the desired position, after which the plate is given a quarter-turn in the direction of the thill, which causes the ends of the strap to engage the tapering portions of the slots 12 and the lips 14' and lugs 15 to bear against the top of the plate, as clearly shown in Fig. 3, clamping the retaining-straps to the thill and securing the holdback in the proper position thereon. To facilitate the turning of the plate 5, so as to tighten the band and cause said plate to assume its proper position on the thill, the terminal heads 13 of the band may be drawn together and held stationary with a pair of pincers or other tool, if desired. To remove the holdback, it is simply necessary to reverse the operation above described, thereby permitting the plate and strap to be readily detached from the thill. Should the retaining-strap for any reason become loose, causing the plate to slide on the thill, the same may be quickly tightened by moving said plate longitudinally on the thill and toward the free end thereof, so as to permit the terminal heads of the strap to engage the reduced portion of the cam-slots, as will be readily understood.

In Fig. 5 I have illustrated a modified form of the invention adapted to automatically release or detach the animal from the thills in case of accident. In this instance one end of the plate 5 is somewhat thicker than the other and provided with a pair of spaced overhanging arms 18, between which is pivoted in any suitable manner the strap-engaging hook 7', so that in case of accident the forward movement of the animal will cause the holdback-strap to tilt said tongue and automatically release the same. The cam slots or grooves 12 are formed gradually tapering from beginning to end and without the communicating openings 16 for the reception of the lugs 15, the lip 14' being deemed sufficient in connection with the tapering slots for locking the parts together.

From the foregoing description it will be seen that I have provided an exceedingly simple and inexpensive holdback capable of be-

ing readily and expeditiously attached to or detached from the vehicle-thills and by means of which the holdback-strap and breeching may be securely retained in position thereon.

While I have illustrated for convenience the holdback attached to a single thill, it will of course be understood that in practice a similar device will be attached in like manner to the opposite shaft or thill of the vehicle.

In some instances the tapering rib 17 may be extended upwardly to form a thin plate adapted to bear against the side or top of the thill, so as to form an additional fastening for the holdback, and thereby reduce the strain on the retaining-strap.

Having thus described the invention, what I claim, and desire to secure by Letters Patent, is—

1. A holdback comprising a strap-engaging plate having oppositely-directed cam-slots, and a thill-embracing strap engaging said cam-slots.
2. A holdback comprising a plate provided with a strap-engaging hook and having oppositely-directed cam-slots, and a thill-embracing strap adapted to detachably engage said cam-slots.
3. A holdback comprising a plate provided with a strap-engaging hook and having oppositely-directed cam-slots, and a thill-embracing strap provided with terminal heads adapted to engage said cam-slots.
4. A holdback comprising a plate provided with an integral strap-engaging hook extending in the same plane therewith and having oppositely-directed cam-slots, and a thill-embracing strap adapted to engage said cam-slots.
5. A holdback comprising a plate provided with a strap-engaging hook and having oppositely-directed cam-slots, and a thill-embracing strap provided with curved terminal heads adapted to engage said cam-slots.
6. A holdback comprising a plate provided with a strap-engaging hook and having a thill-embracing strap detachably secured thereto, said plate and strap being provided with interlocking parts.
7. A holdback comprising a ribbed strap-engaging plate provided with slots, and a thill-embracing strap having terminal heads adapted to engage said slots.
8. A holdback comprising a strap-engaging member provided with oppositely-directed cam-slots, and a thill-embracing member adapted to engage said cam-slots.
9. A holdback comprising a strap-engaging plate provided with oppositely-directed cam-slots, openings formed in the plate and communicating with the base of said slots, and a thill-embracing strap provided with curved terminal heads having outwardly-projecting lugs or lips adapted to engage said cam-slots.
10. A holdback comprising a strap-engag-

ing plate provided with oppositely-directed curved tapering slots, and a thill-embracing strap provided with curved terminal heads adapted to engage said slots.

5 11. A holdback comprising a strap-engaging plate provided at one edge with a tapering rib or enlargement and having oppositely-directed cam-slots formed therein, and a thill-embracing strap engaging said cam-slots.

10 12. A holdback comprising a plate provided at one end with a laterally-projecting strap-engaging hook having an enlargement or

hump, a tongue formed integral with the plate and disposed opposite said enlargement, oppositely-directed cam-slots formed in the other 15 end of the plate, and a thill-engaging strap engaging said cam-slots.

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

JOSEPH WALTER ADAMS.

Witnesses:

C. E. PARKER,

H. K. SNOW.