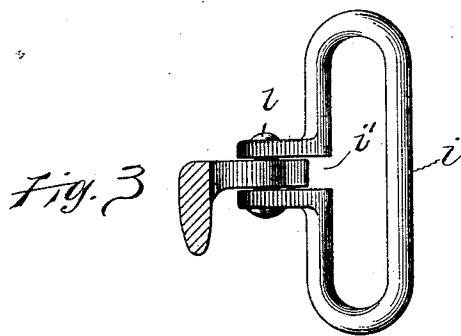
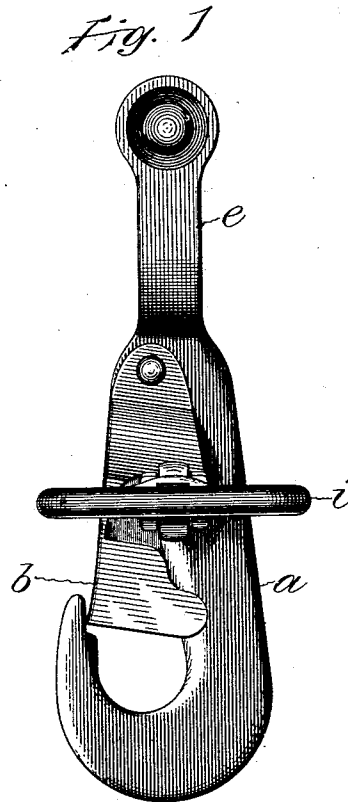
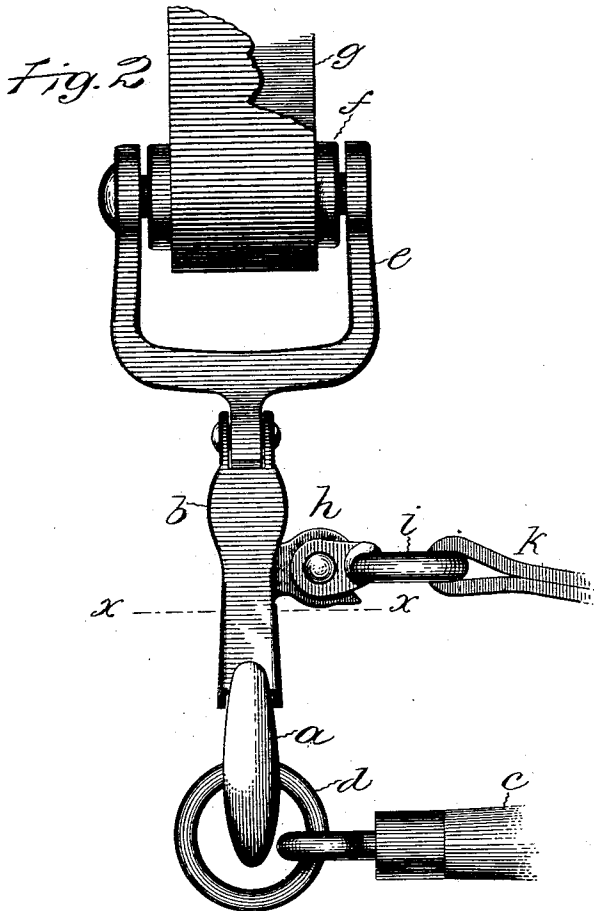


(No Model.)

H. D. WARNER.
BREAST STRAP SLIDE.

No. 573,559.

Patented Dec. 22, 1896.



Witnesses:

C. E. Buckland.

Andrew Ferguson.

Inventor:

Henry D. Warner.

By W. S. Smith
Atty

UNITED STATES PATENT OFFICE.

HENRY D. WARNER, OF NEW BRITAIN, CONNECTICUT.

BREAST-STRAP SLIDE.

SPECIFICATION forming part of Letters Patent No. 573,559, dated December 22, 1896.

Application filed August 23, 1895. Serial No. 560,241. (No model.)

To all whom it may concern:

Be it known that I, HENRY D. WARNER, a citizen of the United States of America, residing at New Britain, in the county of Hartford and State of Connecticut, have invented a certain new and useful Improvement in Roller-Snaps for Team or Wagon Harness, of which the following is a description, reference being had to the accompanying drawings, wherein—

Figure 1 is a side view of the device. Fig. 2 is what may be called a "front" view of the device with the straps, &c., attached. Fig. 3 is a view in cross-section upon the plane $x x$ of Fig. 2.

The object of the improvement is the production of an economical, efficient, and handy device to serve as an intermediate attachment between three parts, to wit: one end of the yoke on the end of the pole, (for a double team,) the pole or martingale strap which runs therefrom between the forward legs of the horse, and the breast-strap hanging somewhat loosely from the horse-collar.

In the accompanying drawings the letter a denotes the hook-body, and b denotes the spring-tongue normally pressed to closure by a spring in or under the same. This part of the device serves for the attachment to the end of the neck-yoke c by means of the intermediate ring d . The other end of the hook-body bears the bifurcation or fork e , within which is hung the roll f . The breast-strap g , which depends from the horse-collar, runs around this roll f , thereby supporting the whole device and its appurtenant parts. Meanwhile the roll f has some permissible motion in and upon the strap g .

The letter h denotes a standard rising from the side of the hook-body. To it is attached (preferably pivotally) the strap-eye i . This

strap-eye serves for the attachment thereto of the pole or martingale strap k , (sometimes called a "yoke-strap" or "choke-strap,") which runs between the horse's front legs, taking hold ordinarily of the breeching-strap, but sometimes only of the belly-band.

In practice the standard h is made of such width as to permit the loop shown on the end of the martingale-strap to be permanently made up and inserted in the eye through the opening which receives and embraces said standard, the pivot of the two parts being a screw l , subsequently inserted in place, a method of construction which has various advantages. To this end the mouth i' of the eye i is made an open mouth to permit the introduction of the permanent loop on the martingale-strap.

The device as a whole is compact, strong, efficient, economical in length of straps, readily placed and displaced, and withal it gives a certain freedom of motion to this device in the nature of a universal joint for the purposes in hand. Practically the use of this device effects the attachment of the harnessed horses to the neck-yoke or their detachment therefrom simply by a single manipulation of the spring-tongue. The drawings show the ring d attached to the end of the neck-yoke. In some constructions it simply encircles the neck-yoke near its end.

I claim as my improvement—

In combination hook-body a , spring-tongue b , roll-bearing fork e , standard h on side of hook-body, open-mouth strap-eye i pivotally attached to said standard and screw l , all substantially as and for the purposes set forth.

HENRY D. WARNER.

Witnesses:

W. E. SIMONDS,
ANDREW FERGUSON.