

No. 630,193.

Patented Aug. 1, 1899.

H. T. DETERT.

DEVICE FOR ATTACHING HOOKS, &c., TO STRAPS.

(Application filed Feb. 25, 1899.)

(No Model.)

Fig. 1.

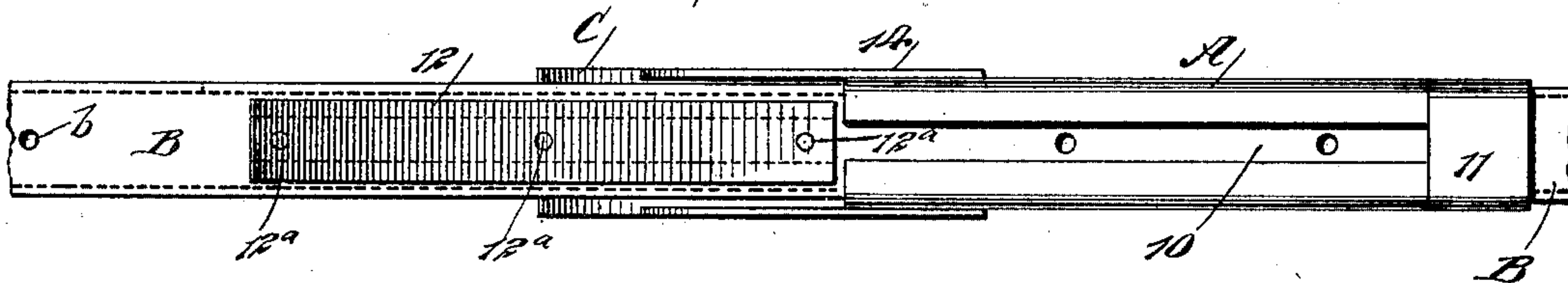


Fig. 2.

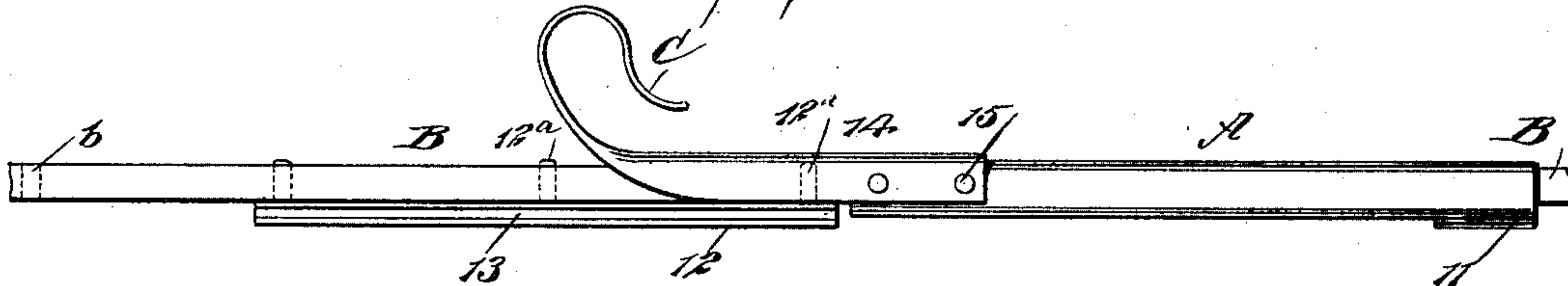


Fig. 3.

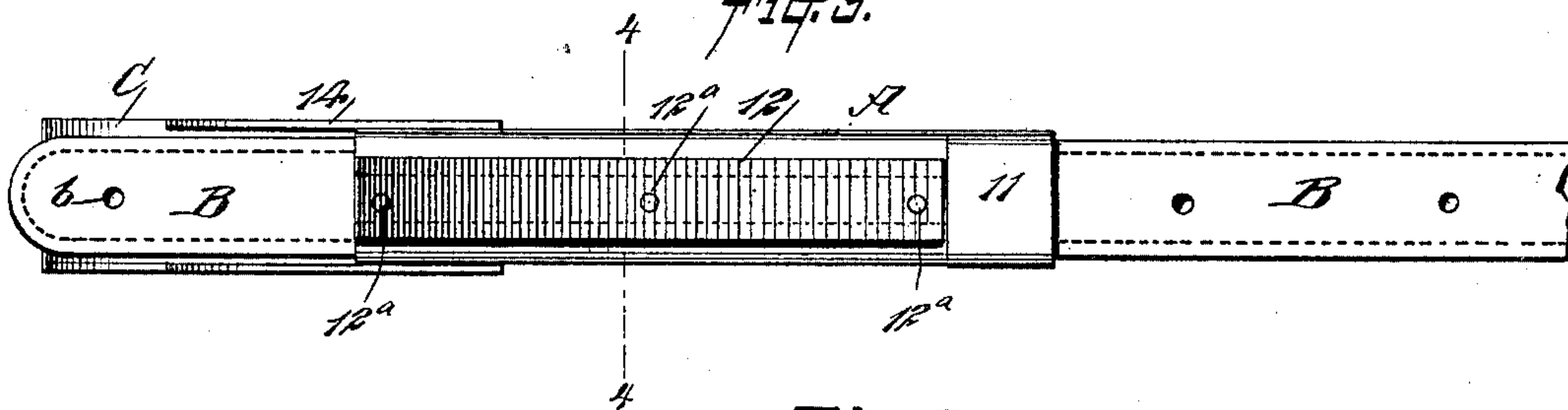
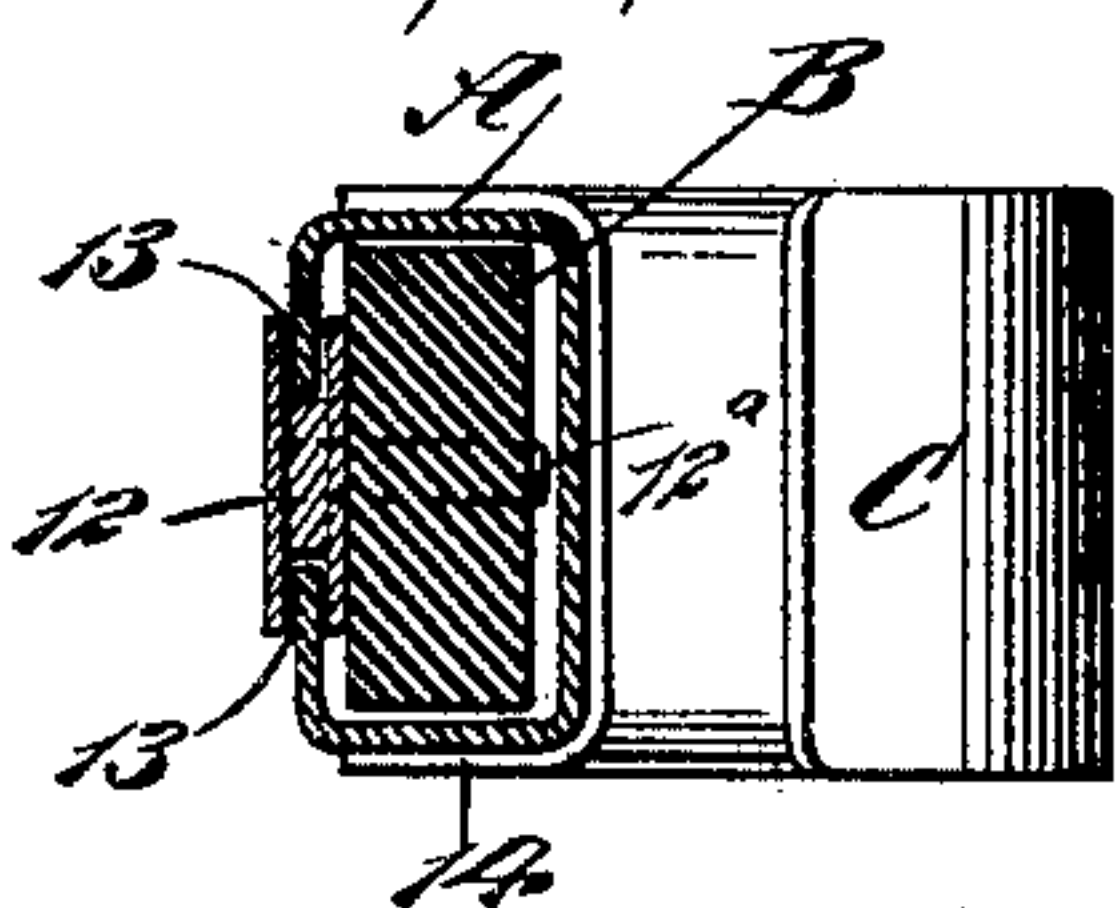


Fig. 4.



UNITED STATES PATENT OFFICE.

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DEVICE FOR ATTACHING HOOKS, &c., TO STRAPS.

SPECIFICATION forming part of Letters Patent No. 630,193, dated August 1, 1899.

Application filed February 25, 1899. Serial No. 706,785. (No model.)

To all whom it may concern:

Be it known that I, HERMAN T. DETERT, of Faribault, in the county of Rice and State of Minnesota, have invented a new and useful
5 Improvement in Harness-Fittings, of which the following is a full, clear, and exact description.

The object of the invention is to provide a buckle adapted for attachment to the parts of
10 a harness, and particularly useful in connection with hame-tugs, breechings, and breast-collar tugs or stays.

A further object of the invention is to so construct the improved fitting that it will not
15 wear the portion of the harness to which it is attached or weaken it in any degree and will be more secure than the ordinary buckle, being practically as inexpensive and simple and at the same time as readily applied.

20 The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claim.

Reference is to be had to the accompanying
25 drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is an outer face view of the improved fitting attached to the tug-strap of a
30 harness, the buckle being shown in open position. Fig. 2 is an upper edge view of the improved fitting and a tug-strap to which it is applied. Fig. 3 is an outer face view of the improved fitting and tug-strap to which
35 it is secured, the buckle being shown in its closed position. Fig. 4 is a transverse section taken substantially on the line 4 4 of Fig. 3, and Fig. 5 is a perspective view of the tongue employed in connection with the tug-
40 strap.

The body portion of the improved fitting consists of a box-casing A, preferably made of metal, and said box-casing is usually rectangular in cross-section and also of any desired length. The box-casing A is provided
45 in one of its faces—for example, its outer face—with a longitudinal slot 10, that extends from its rear end to an offset 11, formed upon the same face of the box-casing in which the slot is produced and at the forward end of said box-casing, as shown in Figs. 1, 2, and 3.

A tongue 12 is employed in connection with

the box-casing A, consisting of a body-plate adapted for detachable connection by means of pins 12^a or their equivalents to a face of
55 a strap B, that is adapted to be passed through the box-casing, the strap in the drawings representing a tug-strap. The pins 12^a are arranged to enter the ordinary apertures *b* in the strap and may be moved backward or forward, as desired. The body-plate of the
60 tongue 12 is provided at each side with a longitudinal groove 13, and the said grooves are arranged to receive the longitudinal edges or walls of the slot 10 in the body-casing when
65 the tongue is introduced into said casing, and the forward movement of the tongue 12 is limited by engagement with the offset 11 on the box-casing. Thus it will be observed that the tongue is adjustable upon the strap and that
70 when tension is brought to bear in a forward direction on a strap that is passed through the box-casing the tongue connected with the strap by engagement with said box-casing will limit the forward movement of the strap
75 and the tongue and box-casing serve in like capacity as the body and tongue of a buckle; but at the same time the strap to which the device is applied is in no appreciable degree weakened, as is the case when an ordinary
80 buckle is applied to the strap.

When the improved device is to be used in connection with a hame-tug or a breeching and breast-collar tug or stay, a hook or clip C is employed in connection with the device,
85 as shown in the drawings. The hook C is attached to or forms an integral portion of a shank 14, the said shank being substantially U-shaped in cross-section, and the shank is placed at the inner surface of the box-casing
90 at its open or rear end, being secured to said box-casing by means of rivets 15 or like fastening devices, the said hook C extending at a right angle to said box-casing.

Having thus described my invention, I
95 claim as new and desire to secure by Letters Patent—

In a device adapted for attaching hooks or snaps to breechings, breast-collars, tugs and other parts of a harness, the combination,
100 with a box-casing adapted to receive the apertured end of a strap, said casing being open at its ends and provided with a longitudinal groove of even width extending from one end

to a point near the opposite end, and a transverse stop located at the closed end of the slot offset from the box-casing, of a tongue consisting of a rectangular plate having its
5 side edges provided with continuous longitudinal grooves extending from end to end of the plate, which grooves are adapted to receive the side walls of the slot in the box-casing, pins projected from a face of the plate,

which pins are adapted to enter apertures in the strap passed through the said casing, and an attaching-hook independent of the tongue and carried by the said casing.

HERMAN T. DETERT.

Witnesses:

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LOUISE MOTT.