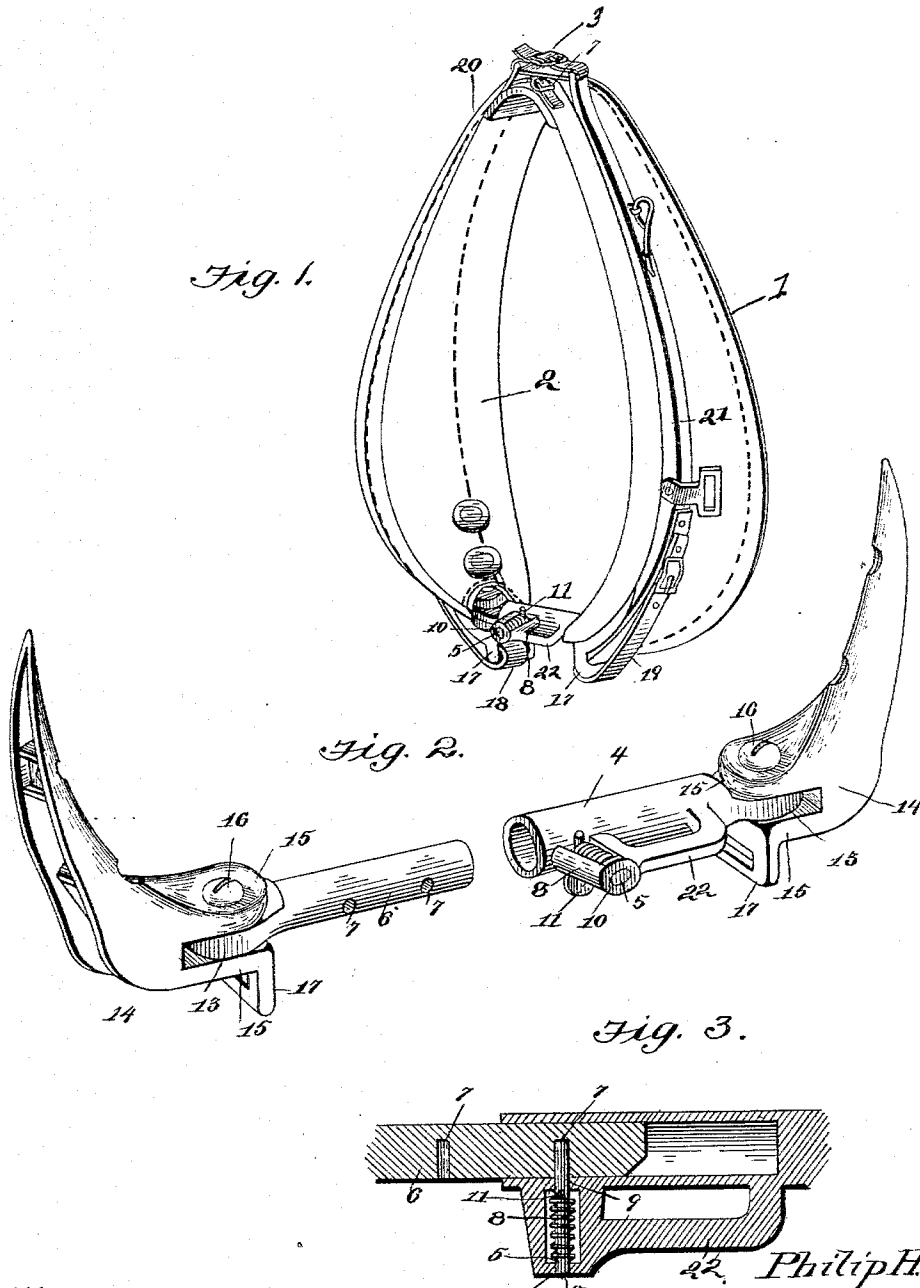


(No Model.)

P. H. DUBOIS.
HORSE COLLAR FASTENER.

No. 532,039.

Patented Jan. 8, 1895.



Witnesses
Thos W Riley.
E. J. [Signature]

Inventor
Philip H Dubois,
By *his* Attorneys.

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UNITED STATES PATENT OFFICE.

PHILIP HASBROOK DUBOIS, OF WATERLOO, NEBRASKA.

HORSE-COLLAR FASTENER.

SPECIFICATION forming part of Letters Patent No. 532,039, dated January 8, 1895.

Application filed July 30, 1894. Serial No. 518,942. (No model.)

To all whom it may concern:

Be it known that I, PHILIP HASBROOK DUBOIS, a citizen of the United States, residing at Waterloo, in the county of Douglas and State of Nebraska, have invented a new and useful Horse-Collar Fastener, of which the following is a specification.

My invention relates to a fastening device for horse-collars; and it has for its object to provide a simple, effective, strong, and durable means for connecting the lower ends of collar-sections together; to provide means for adjusting said fastener to alter the size of the collar; and to provide means for connecting the hames to the collar-sections whereby the lower ends of said sections may be disconnected to remove the collar without detaching the hames.

Further objects and advantages of the invention will appear in the following description, and the novel features thereof will be particularly pointed out in the claims.

In the drawings: Figure 1 is a perspective view of a fastening device embodying my invention, applied in the operative position to a collar, the hames being also shown attached. Fig. 2 is a detail view, in perspective, of the fastener with the members thereof disconnected. Fig. 3 is a detail section, through a portion of the fastener, to show the means for securing the male within the female member.

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

1 and 2 designate, respectively, the opposite parts or sections of a collar to which my improved fastening device is applied, said parts or sections being connected at their upper ends by any suitable flexible means, such as the ordinary straps and buckles 3, shown in the drawings. The fastening device for the lower ends of the collar-sections comprises two interlocking members, of which the female member 4 is tubular and carries a spring-actuated locking pin 5 and the male member 6 is round in cross-section, fits within the female member, and is provided with a series of spaced sockets 7 to receive the inner end of the said locking-pin to prevent accidental disengagement of the parts. The locking-pin

is arranged in a slotted guide 8 attached to or integral with the female member of the fastener, fits at its inner end in a perforation 9 in the side of said member and at its outer end in a similar perforation 10 in the guide, and carries a finger-hold 11 which operates in the slots in the sides of the guide and serves to hold the coiled spring 12 as well as the locking-pin in place.

The remote extremities of the members of the fastener are flattened and perforated to form eyes 13, which fit in bifurcations of the securing plates 14, and these securing plates which are tapered toward their outer ends and are substantially V-shaped in cross-section are fitted in the crease between the body and neck rolls of the collar sections. The inner ends of the securing-plates are bifurcated, as described, to form the parallel eyes 15 between which the eyes on the outer ends of the members of the fastener fit and are held, pivotally, by the bolts 16.

The outer eyes formed by the bifurcation of the ends of the securing-plates carry loops 17, adapted to be engaged by the short billet-straps 18 and 19 which are attached, respectively, to the lower ends of the hames 20 and 21, said hames 20 and 21 being fitted, respectively, in the creases of the collar-sections 1 and 2. Thus, each of the hames is attached independently to the collar-section upon which it is fitted, and when the members of the fastener are disconnected for the purpose of removing the collar the hames may remain in place on the collar and may be applied, simultaneously with the collar, in harnessing.

The loop 22 for the attachment of a strap, (not shown,) to connect with the girth, is secured to or formed integral with the female member of the coupling, adjacent to the guide for the locking-pin.

It will be understood that in practice, various changes in the form, proportion, and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

Having thus described my invention, I claim—

1. A fastening device for the lower ends of horse collar sections, the same comprising se-

curing plates angular in cross-section to fit in the crease between the rolls of the collar sections, interlocking telescoping members pivotally connected respectively to the securing plates and adapted for horizontal swinging movement, a loop and a spring-actuated bolt carried by the exterior member, the interior member being provided with spaced perforations for the reception of the inner end of the bolt, and means for the attachment of the lower ends of hames fitted upon the collar sections, substantially as specified.

2. A fastening device for the lower ends of horse-collar sections, the same comprising interlocking male and female members, secur-

ing-plates attached respectively to the collar sections, said members being pivotally connected to the securing-plates, loops carried respectively by the securing-plates and adapted for engagement by straps at the lower ends of hames fitted upon the collar sections, and means for securing the members at the desired extension, substantially as specified.

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

PHILIP HASBROOK DUBOIS.

Witnesses:

W. H. JACOBSON,

W. H. AYRES.