

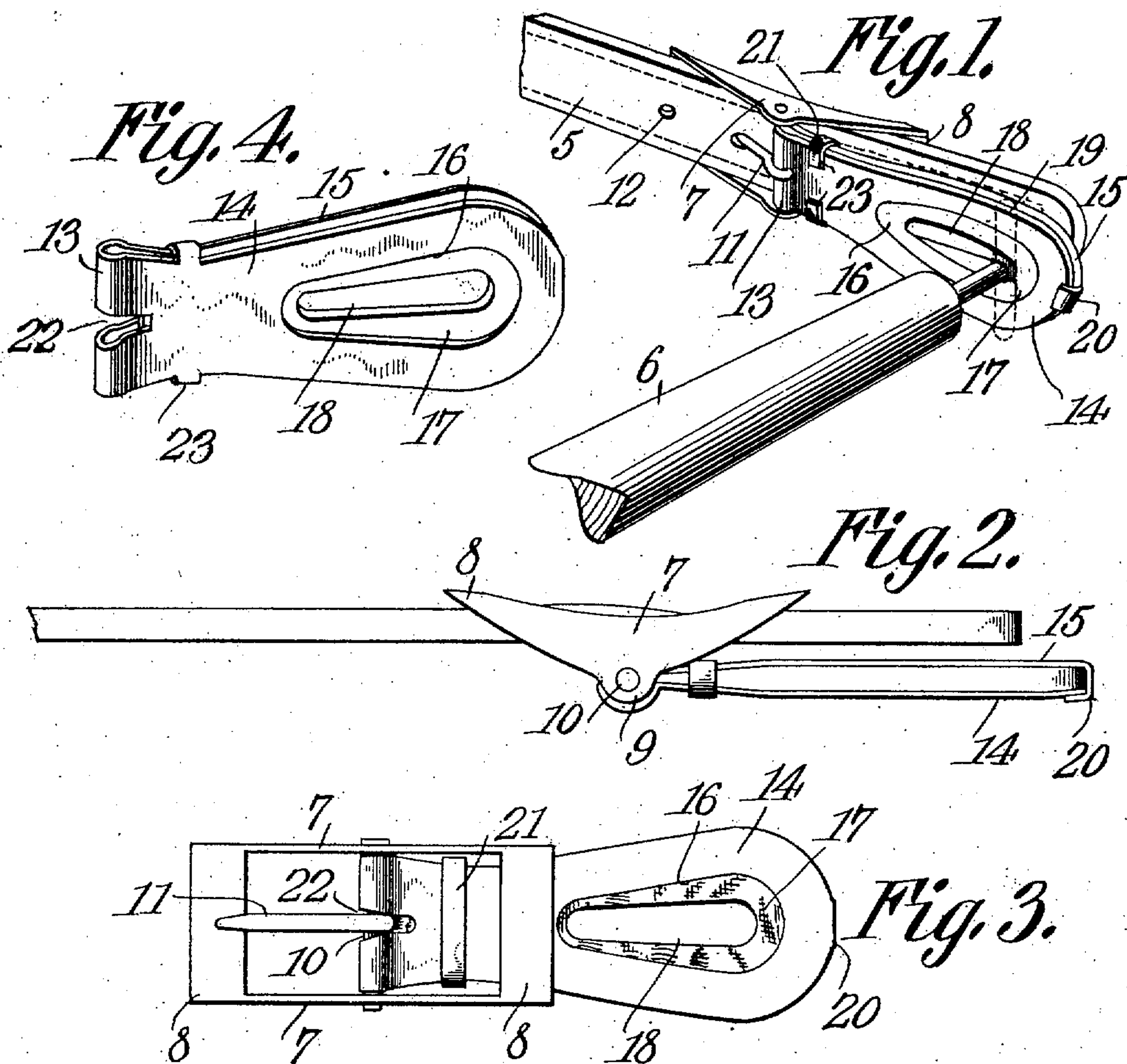
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E. B. KNAPP.

COMBINATION BUCKLE AND COCKEYE FOR HARNESS TRACES.

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WITNESSES:

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No. 850,115.

Specification of Letters Patent.

Patented April 9, 1907.

Application filed July 21, 1906, Serial No. 327,197.

To all whom it may concern:

Be it known that I, EDMOND BORKE KNAPP, a citizen of the United States, residing at Yuma, in the county of Yuma and Territory of Arizona, have invented a new and useful Combination Buckle and Cockeye for Harness-Traces, of which the following is a specification.

This invention relates to combined buckles and cockeyes for harness.

The object of the invention is to provide a buckle having a cockeye pivotally associated therewith and adapted to engage the swingle-tree hook, whereby the trace may be readily connected to and disconnected from the swingle-tree without the necessity of perforating or otherwise forming the usual hook-receiving openings in said trace.

A further object of the invention is to provide a buckle capable of being used in connection with old traces, in which the walls of the hook-receiving openings are torn or unduly enlarged, thereby materially lengthening the life of the trace and rendering the same serviceable for an indefinite period.

A still further object of the invention is to generally improve this class of devices, so as to increase their utility, durability, and efficiency, as well as to reduce the cost of manufacture.

With these and other objects in view the invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, and illustrated in the accompanying drawings, it being understood that various changes in form, proportions, and minor details of construction may be resorted to within the scope of the appended claims.

In the accompanying drawings, forming a part of this specification, Figure 1 is a perspective view of a combined buckle and cockeye constructed in accordance with my invention, showing the same in position on the end of the trace. Fig. 2 is a side elevation of the same. Fig. 3 is a top plan view with the trace removed. Fig. 4 is a detail perspective view of the cockeye detached.

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

The improved device is principally designed for connecting a trace with a swingle-tree and by way of illustration is shown applied to a

trace of the ordinary construction, in which 5 designates a portion of the trace, and 6 one end of a swingle-tree.

The buckle consists of a substantially rectangular frame comprising the parallel side bars 7, connected by transverse end bars 8 and provided with depending spaced ears 9, pierced by a transverse tongue-supporting bar 10, as shown. Pivotally mounted on the bar 10 is a tongue 11, which engages the openings 12 in the trace 5, whereby the buckle may be adjusted longitudinally of the trace and locked in adjusted position.

Pivotally associated with the buckle is a cockeye, preferably formed of a single piece of metal bent upon itself to form an intermediate loop 13 for the reception of the pivot pin or bar 10 and thence extended to form substantially parallel arms 14 and 15. The arms or plates 14 and 15 are provided with aligned openings or perforations 16, and interposed between said plates is a strip of leather or other suitable yieldable material 17, provided with a similar opening or slot 18, adapted to receive the whiffletree-hook 19, as best shown in Fig. 1 of the drawings. The arm or plate 14 is provided with an extension or lug 20, the free end of which is bent laterally into engagement with the plate 15, thereby serving to lock the plates together and prevent accidental displacement of the leather 17.

Slidably mounted on the plates 14 and 15 is a ring or loop 21, adapted to engage the inclined walls of said plates, and thus clamp the loop 13 in engagement with the pin or bar 10. The loop 13 is formed with an elongated slot 22 for the reception of the pivoted end of the tongue 11, while the adjacent end of the leather strip 17 bears against the tongue, as shown, and serves to prevent wobbling of the same.

Attention is called to the fact that the slot 22 serves to center the pivoted end of the tongue 11 on the bar 10, so that the free end thereof will always register with the openings 12 in the trace when the buckle is adjusted on the latter.

If desired, the clamping-loop 21 may be dispensed with and the side walls of the plate 14 formed with laterally-extended lugs 23 for clamping the plates together at the transverse bar-receiving loop, as best shown in Fig. 4 of the drawings.

In operation the buckle is adjusted longi-

itudinally of the trace and the whiffletree 19 inserted through the opening 18 in the cockeye and turned at right angles, thus locking the trace in position on the whiffletree. In order to remove the trace, it is merely necessary to partially rotate the hook 19, when the parts may be readily detached. By having the buckle formed in this manner the same may be used in connection with old or worn traces in which the walls of the hook-receiving openings have been torn or unduly enlarged, thus permitting apparently useless or discarded traces to be used over again.

The buckles may be made in different sizes and shapes and nicked, japanned, or otherwise plated to give the same a neat, attractive appearance.

From the foregoing description it will be seen that there is provided an extremely simple, inexpensive, and efficient device admirably adapted for the attainment of the ends in view.

Having thus described the invention, what is claimed is—

1. A buckle having a cockeye pivotally associated therewith, said cockeye being formed of a plurality of perforated plates spaced apart and provided with interlocking ends, and a strip of yieldable material interposed between the plates.
2. A buckle having a tongue-supporting bar, and a cockeye pivotally mounted for swinging movement on said bar and formed of arms spaced apart by a strip of yieldable material.
3. A buckle having a tongue-supporting bar, a cockeye pivotally mounted on said bar and formed of spaced plates one of which is provided with a lug adapted to engage the adjacent plate, and a strip of yieldable material interposed between the plates and provided with an opening.
4. A buckle having a tongue-supporting bar, and a cockeye pivotally mounted for swinging movement on said bar and formed of spaced plates provided with interlocking parts, and a strip of yieldable material interposed between the plates and provided with an opening.
5. A buckle having a tongue-supporting

bar, a cockeye pivotally mounted for swinging movement on said bar and formed of spaced plates provided with interlocking parts, a strip of yieldable material interposed between the plates and having an opening formed therein, and a clamping member engaging the plates.

6. A buckle having a tongue-supporting bar, a cockeye pivotally mounted for swinging movement on said bar and formed of a single piece of metal an intermediate portion of which is bent to form a loop for the reception of the bar and its opposite ends spaced apart and provided with interlocking parts, a strip of yieldable material interposed between the plates, there being a slot formed in the plates at the transverse loop for the reception of the pivoted end of the tongue.

7. A buckle having a tongue-supporting bar, a cockeye pivotally mounted for swinging movement on said bar and formed of a single piece of metal bent upon itself to form a loop for the reception of said bar and having its opposite ends spaced apart, there being an opening formed in the walls of the loop for the reception of the tongue, and a strip of yieldable material interposed between the ends of the plate and bearing against the pivoted end of the tongue.

8. A buckle having a tongue-supporting bar, a cockeye pivotally mounted on said bar and formed of a single plate of metal bent upon itself to produce a loop for the reception of the bar and having its opposite ends spaced apart and one of said ends provided with a lug adapted to engage the adjacent end, said plate being provided with aligned transverse openings, a strip of yieldable material interposed between the free ends of the plate and provided with an elongated slot, and a clamping-band slidably mounted on the plate at the pivoted end of the latter.

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

EDMOND BORKE KNAPP.

Witnesses:

W. A. BOWLES,
O. C. JOHNSON.