(No Model.)

M. M. GREEN.

COMBINED BUCKLE AND SNAP HOOK.

No. 457,614. Patented Aug. 11, 1891.

Fig. 1

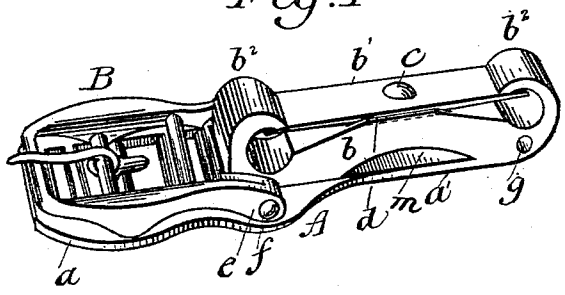


Fig. 2

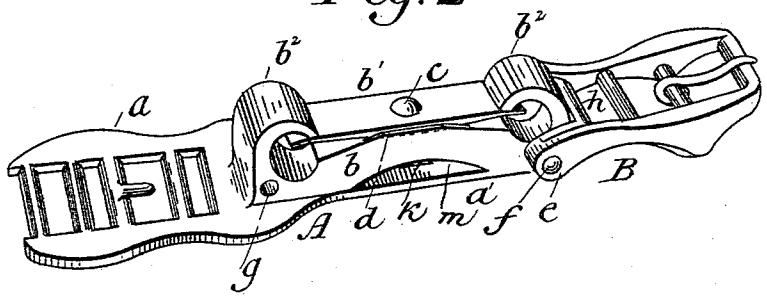
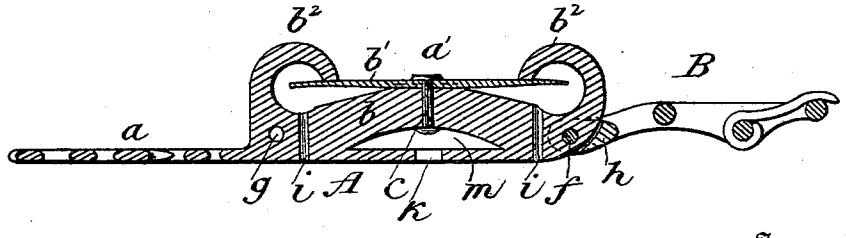


Fig. 3



Witnesses
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UNITED STATES PATENT OFFICE.

MARION MONROE GREEN, OF LYNCHBURG, TENNESSEE.

COMBINED BUCKLE AND SNAP-HOOK.

SPECIFICATION forming part of Letters Patent No. 457,614, dated August 11, 1891.

Application filed January 10, 1891. Serial No. 377,348. (No model.)

To all whom it may concern:

Be it known that I, MARION MONROE GREEN, a citizen of the United States, residing at Lynchburg, in the county of Moore and State of Tennessee, have invented certain new and useful Improvements in Combined Buckles and Snap-Hooks; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to certain improvements in combined harness buckles and snaps, and is characteristic for its great adaptability to different applications or use upon the harness; and it consists in the novel construction and combination of its parts, as disclosed in the accompanying description and drawings, and pointed out in the claims.

In the drawings, Figure 1 is a perspective view of my improved combined buckle and snap; Fig. 2, a perspective view showing the removable buckle in its shifted or alternate position, and Fig. 3 a longitudinal section through Fig. 2.

Similar letters refer to similar parts throughout the several views.

In carrying out my invention I produce in a single piece or casting A a combined fixed buckle a and a snap a', formed of a single plate, the skeleton portion of which at one end constitutes the buckle, while the other half or portion of the plate is formed with a bridge b, forming at its center a bearing for the spring-metal plate b' and having its end curved inwardly to form hook noses or beaks b^2. The spring-metal plate b' is formed thickest at its center, where it rests on the center of the bridge, and tapers slightly therefrom on its under side toward each end and is rigidly secured to the convex or upper surface of the bridge by a rivet c or a screw, as desired, and is prevented turning laterally by flanges d, cast on the bridge at each side of the center of the same, the ends of the spring-plate passing under the beaks b^2, as clearly shown, so that upon depressing either end of the spring a ring or strap of the harness may be permitted to enter beneath the beak and upon releasing the spring it will fly back to the beak, and thus prevent the ring or strap escaping from under the beak until the end of the spring is again depressed. Thus it will be seen that I provide with a single spring-metal plate and the two hook noses or beaks a double snap-hook, either or both of which may be in use at the same time without interference of one with the other.

B represents a detachable buckle having the perforated ears or lugs e cast at one end thereof, by which said buckle may be pivotally secured to either end of the double snap-hook by a pin f, passed through said ears or lugs and the perforations g, formed in the ends of said snap-hook, and when thus secured may have a limited movement vertically on its pivot-pin, but cannot turn completely over, as the bar h, forming one end of said buckle, is concaved in such a manner as to fit the end of the snap-hook and permit of a slight rise and fall of the buckle, but prevents its rising or falling or swinging on its pivot to such an extent as might interfere with its instant use when needed, owing to the short arc or curve of the bar as compared with the curve of the end of the snap-hook. Perforations i are formed vertically through the snap-hook at each end, whereby the same may be secured rigidly or removably to the harness and through the body of the plate. Immediately beneath the bridge b an oblong opening k is formed, the plate, as shown best in Fig. 3, being cast or cut out under the bridge, as at m, for a purpose which will be described.

Among the many uses to which my improved combined buckle and snap-hook may be put are the following: First, it is applicable for use as a breast-yoke buckle when arranged with the removable buckle pivoted to that end of the snap-hook which is adjacent the stationary buckle, as shown in Fig. 1; second, as a line or rein and bit buckle, when arranged as shown in Fig. 2, the plate portion thereof preventing the buckle being pulled through the mouth of the animal; third, as a buckle for bridle-bits, in which case the bit is secured to the plate, as described, and the loose buckle is secured to the head-straps and prevents the same rubbing the animal; fourth, as a back-band buckle, in which case I remove the loose buckle and fasten the strap to the stationary buckle and pass the trace to the snap-hook, and, fifth, as cheeks or side bars for bits,

in which case the ends of the bar of the bit are inserted in the openings *k* beneath the bridge and a key passed through said ends, making a loose joint.

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

1. The combined harness-buckle and double snap-hook having the fixed and removable buckle, the latter being adapted to be secured to either end thereof, substantially as described.

2. The combined buckle and snap-hook having a fixed buckle and double snap-hook, consisting of the plate having a skeleton portion at one end and the hooks or beaks at the other end, and a spring-metal plate centrally secured between said hooks or beaks and having its ends extended beneath said hooks or beaks, substantially as described.

3. The combined harness-buckle and snap-hook having a fixed buckle and a double snap-hook, a removable buckle adapted to be shifted to either end of said double snap-hook, and said fixed buckle and snap-hook comprising a plate having a skeleton and a thickened portion forming a bridge, and hooks or beaks at each end thereof, and a spring-metal plate secured to said bridge and extending under said hooks or beaks, substantially as described.

4. The combined buckle and snap-hook having a fixed buckle and a double snap-hook, consisting of a plate having a skeleton portion at one end and a thickened portion at the other, with side lugs upon the upper face thereof and beaks at each end, a spring-plate centrally secured to the thickened portion between the beaks and between the side lugs, and a detachable buckle adapted to be secured at either end of the thickened portion and provided with concave cross-bar *h*, substantially as and for the purpose specified.

In testimony whereof I affix my signature in presence of two witnesses.

MARION MONROE GREEN.

Witnesses:

J. F. BICKLEY,

B. F. WOMACK.