(No Model.)

G. N. FREER.

BUCKLE.

No. 279,237. Patented June 12, 1883.

Fig. 1.

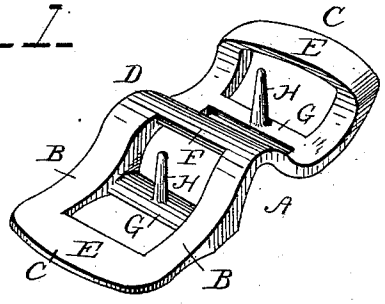


Fig. 2.

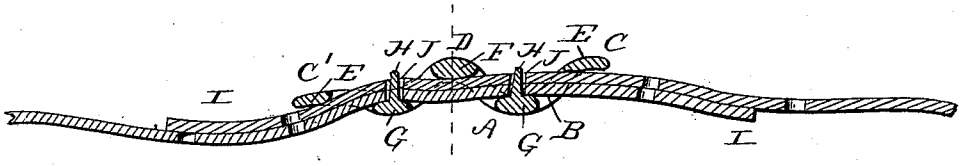
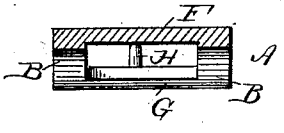


Fig. 3.



WITNESSES
F. L. Durand.
J. R. Littell

G. N. Freer,
INVENTOR
by C. A. Snow & Co.
Attorneys.

N. PETERS, Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

GEORGE N. FREER, OF BLUE EARTH CITY, MINNESOTA.

BUCKLE.

SPECIFICATION forming part of Letters Patent No. 279,237, dated June 12, 1883.

Application filed April 12, 1883. (No model.)

To all whom it may concern:

Be it known that I, GEORGE N. FREER, a citizen of the United States, residing at Blue Earth City, in the county of Faribault and State of Minnesota, have invented a new and useful Buckle, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to buckles, and is especially adapted for use as a cross-rein buckle that will securely prevent the reins from working in either direction.

The invention has for its object to provide a harness-buckle possessing superior advantages in point of simplicity, inexpensiveness, durability, and general efficiency.

In the drawings, Figure 1 is a perspective view of my improved buckle. Fig. 2 is a longitudinal sectional view of the same with the reins in position. Fig. 3 is a transverse sectional view of the buckle.

Referring to the drawings, A designates the frame of my improved buckle, which is preferably constructed or formed in one piece, as shown. The frame A comprises two parallel side pieces, B B, that are longitudinally curved alternately up and down, so that a downward curve, C C′, is formed at each end, and an inverted raised curve, D, at the center. These side pieces, B B, are connected by cross-pieces E E at their ends, and also by a cross-piece, F, at the central raised curved portion, D. From the downward curves C C′, at each side the upward curve D, extend cross bridges or pieces G G, from each of which projects a pin or nib, H.

In applying the buckle the ends I I of the reins are inserted at the opposite ends first under the end cross-piece, E, over the bridge G, so that the nib thereon will engage the perforation J in the reins, then under the central cross-piece, F, over the bridge G, and engaged by the nib thereon, and under the other end piece, E, all as shown.

It will be observed that the end curves, C C′, vary in shape, the end C having a higher curve, so that its cross-piece E is about on the same plane as the central cross-piece, D, while the end curve C′ has a somewhat lower curve, which brings its cross-piece E on a somewhat lower plane than the central cross-piece, D. By this means the reins are retained securely in position from movement in either direction, and yet they can be readily and conveniently removed or separated from the buckle when desired.

The construction of this improved buckle is very simple and inexpensive, and it can be operated with superior convenience and facility. By reason of the buckle being all formed in one piece, there are no separable or pivoted parts liable to become lost or misplaced.

I claim as my invention—

1. As an improved article of manufacture, the herein-described improved buckle, comprising in its construction longitudinal side pieces united by end cross-pieces and by a central cross-piece, and having cross-bridges arranged at each side the central cross-piece, and provided with upwardly-projecting pins or nibs, as and for the purpose set forth.

2. As an improved article of manufacture, the herein-described improved harness-buckle, comprising in its construction longitudinal side pieces, longitudinally curved alternately up and down to form alternate downward and upward curved portions, the upward curves being connected by cross-pieces, while the downward curves are connected by bridges provided with upwardly-projecting pins or nibs, as and for the purpose set forth.

3. The herein-described improved harness-buckle, comprising in its construction the longitudinal side pieces, curved to form a downward curve at each end, and an inverted raised curve at the center, the connecting end cross-pieces, the connecting central cross-piece, and the cross-bridges arranged at each side the central connecting cross-piece, and provided with upwardly-projecting pins or nibs, as set forth.

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

GEORGE N. FREER.

Witnesses:

F. D. GREENE,

CHARLES H. FREER.