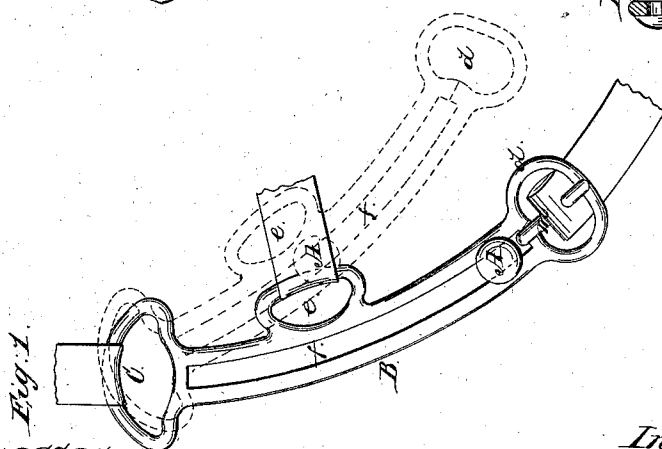
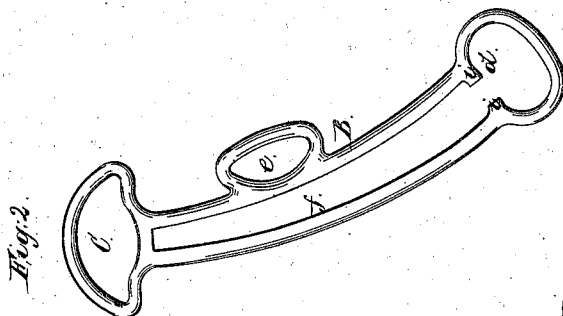
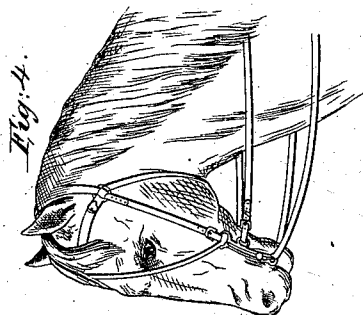


C.H. Miller,

Bridle Bit,

No 81,395,

Patented Aug. 25, 1868.



Witnesses:

*G. Bunkhardt
W. Becker.*

Inventor:

*Chas. H. Miller
by Forbush & Hyatt attys*

UNITED STATES PATENT OFFICE.

CHARLES H. MILLER, OF BUFFALO, NEW YORK.

IMPROVED BRIDLE-BIT.

Specification forming part of Letters Patent No. 81,395, dated August 25, 1868.

To all whom it may concern:

Be it known that I, CHARLES H. MILLER, of the city of Buffalo, in the county of Erie and State of New York, have invented a certain new and Improved Bridle-Bit; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making part of this specification, in which—

Figure I is a side elevation of the bit represented in the position in which it is when in use. Fig. II is a view of one of the lever-guides before the mouth-piece is attached. Fig. III is a cross section of one of the branches or levers of the bit. Fig. IV is a view of my improved bit attached to a bridle, and on a horse's head.

Like letters of reference designate like parts in all the figures.

The invention consists of a mouth piece formed with a head and neck at each end, in combination with two lever-guides, provided with a longitudinal slot and buckle-ring, and cast distended to permit the insertion of the said mouth-piece and buckle-tongue, which are retained therein by compressing the sides of the said guides, as hereinafter more fully set forth.

In the drawings, A represents the mouth-piece of the bit, and B the levers or branches at the ends thereof. These levers are constructed with a ring or loop, *c*, at the upper end for attaching the headstall, a similar one, *d*, at the lower end for the guide-reins, and one, *e*, at the side for the check-rein, together with a longitudinal slot, *f*, for the ends of the mouth-piece to slide in. They are cast in substantially the form shown in Fig. II, the lower end of the slot being separated from the loop *d* by lug projections *i*, which are cast distended to permit the passage of the neck formed in the ends of the mouth-piece into the slot above. A buckle-tongue, *m*, is adjusted

between the projections *i*, when the casting is compressed, bringing it into its regular shape, and the lugs *i* in contact with each other, which thereby serve to separate the slot from the loop *d*, and also to form an axis for the tongue, which, in connection with the loop, forms a complete buckle for the ends of the reins.

The employment and operation of my improved bit are as follows:

The ordinary position of the bit, when on a horse, is that represented in Figs. I and IV, the cross-rod or mouth-piece resting in the lower ends of the slots. Force being exerted on the guide-reins, the levers are drawn back, which causes the mouth-piece to slide in the slots toward the opposite end, as represented in Fig. I. In this position the upper end of the lever attached to the headstall forms a fulcrum, the bit the weight or resistance, with the reins attached to the long arm of the lever, whereby the driver is enabled to exert a greatly-increased force in restraining the animal.

By means of my improvement, the branches or levers can be readily formed and attached to the bit, without riveting or other expensive method of attachment. It also enables a buckle to be formed with the lower loop for the guide-reins, by which the necessity of having one attached to the ends of the reins is dispensed with.

What I claim as my invention, and desire to secure by Letters Patent, is—

The bar or mouth-piece A and slotted lever-guides B, when constructed, and the latter cast distended to permit the insertion of the bar A and tongue *m*, in the manner described.

CHARLES H. MILLER.

Witnesses:

JAY HYATT,
V. H. BECKER.