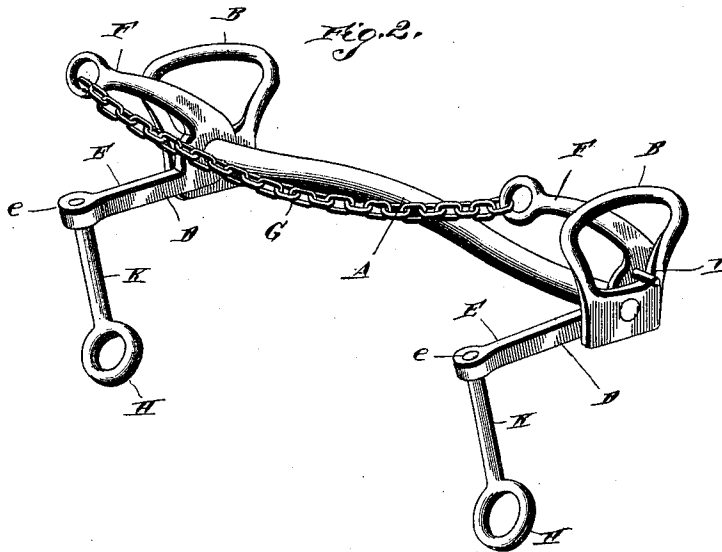
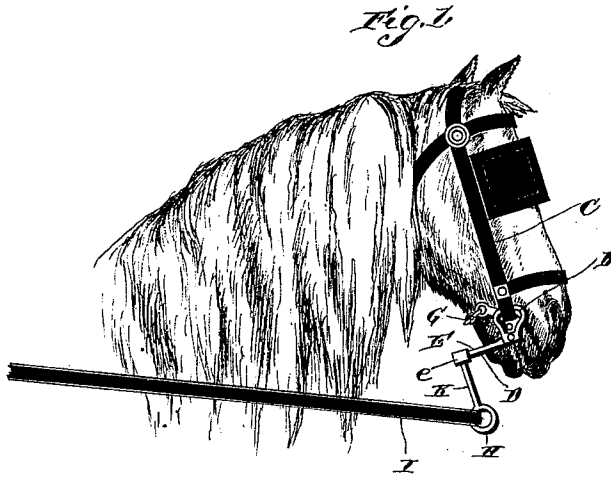


(No Model.)

Z. T. BOWLES.
BRIDLE BIT.

No. 403,510.

Patented May 21, 1889.



Witnesses.

C. B. Taylor
C. E. Doyle.

Inventor.
Zachary T. Bowles,

By his Attorneys

C. A. Howard & Co.

UNITED STATES PATENT OFFICE.

ZACHARY TAYLOR BOWLES, OF HILLSBOROUGH, TEXAS.

BRIDLE-BIT.

SPECIFICATION forming part of Letters Patent No. 403,510, dated May 21, 1889.

Application filed September 20, 1888. Serial No. 285,926. (No model.)

To all whom it may concern:

Be it known that I, ZACHARY TAYLOR BOWLES, a citizen of the United States, residing at Hillsborough, in the county of Hill and State of Texas, have invented new and useful Improvements in Curb-Bits for Bridles, of which the following is a specification.

The invention relates to improvements in curb-bits for bridles, having for its object to simplify and cheapen their construction and render them more effective than heretofore.

The invention consists in a certain novel construction and arrangement of devices fully set forth hereinafter in connection with the accompanying drawings, and specifically pointed out in the appended claims.

In the drawings, Figure 1 is a view of a bridle-bit embodying my improvements applied in the operative position to a horse's head. Fig. 2 is a detail view.

Referring to the drawings by letter, A designates the bit-bar, to the opposite ends of which are affixed the loops B B, to which are attached the lower ends of the cheek-straps C C, and D D designate angle-levers, which are mounted on the said bit-bar adjacent to the inner sides of the loops B B. The angle-levers comprise, respectively, the arms E E, having the sockets *ee* at their extremities, and the arms F F, to which are attached the ends of the curb-chain G.

The rings or loops H H, to which are attached the ends of the reins I, are provided with the shanks K K, which are mounted in the sockets *ee*, and are capable of longitudinal movement therein.

It will be understood that the angle-levers turn freely on the bit-bar, which is preferably slightly curved, and they are provided with the studs or pins L L, which operate in the loops B B.

When the reins are pulled slightly, the operation of this bit is similar to any ordinary curb-bit—that is, a leverage is exerted on the jaws of the horse, the curb-chain acting as a fulcrum; but when the levers are turned suffi-

ciently to cause the studs or pins L L to engage the front sides of the loops B B and turn the latter an additional pressure is exerted by the curved portion of the bit-bar against the roof of the horse's mouth, as will be evident.

Having thus described the invention, I claim—

1. In a bridle-bit, the combination, with the bit-bar, of the angle-levers swiveled on the said bar and having limited rotation thereon, the curb-chain connecting the upper arms of the said levers, and the reins connected to the lower arms of the same, substantially as specified.

2. In a bridle-bit, the combination of the bit A, having the loops B B attached to its ends, the angle-levers mounted on the bit-bar and comprising the arms E E, provided with sockets *ee*, and the arms F F, connected by the curb-chain G, and the loops or rings H H, provided with shanks mounted in the sockets *ee*, substantially as specified.

3. In a bridle-bit, the combination, with a bit-bar, A, provided with the loops B B, of the angle-levers D D, mounted on the said bar and having their corresponding arms respectively connected by the curb-chain and provided with rein loops or rings H H, and the studs or pins L on the levers engaging the loops B, substantially as specified.

4. In a bridle-bit, the combination, with the bit-bar, having loops B B attached thereto, of the levers mounted loosely on the said bar and provided with sockets *ee*, and the rings or loops H H, provided with shanks mounted in the said sockets, whereby the rings are adjustable, substantially as specified.

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

ZACHARY TAYLOR BOWLES.

Witnesses:

ARTHUR W. YOUNG,
CHAS. M. MOORE.