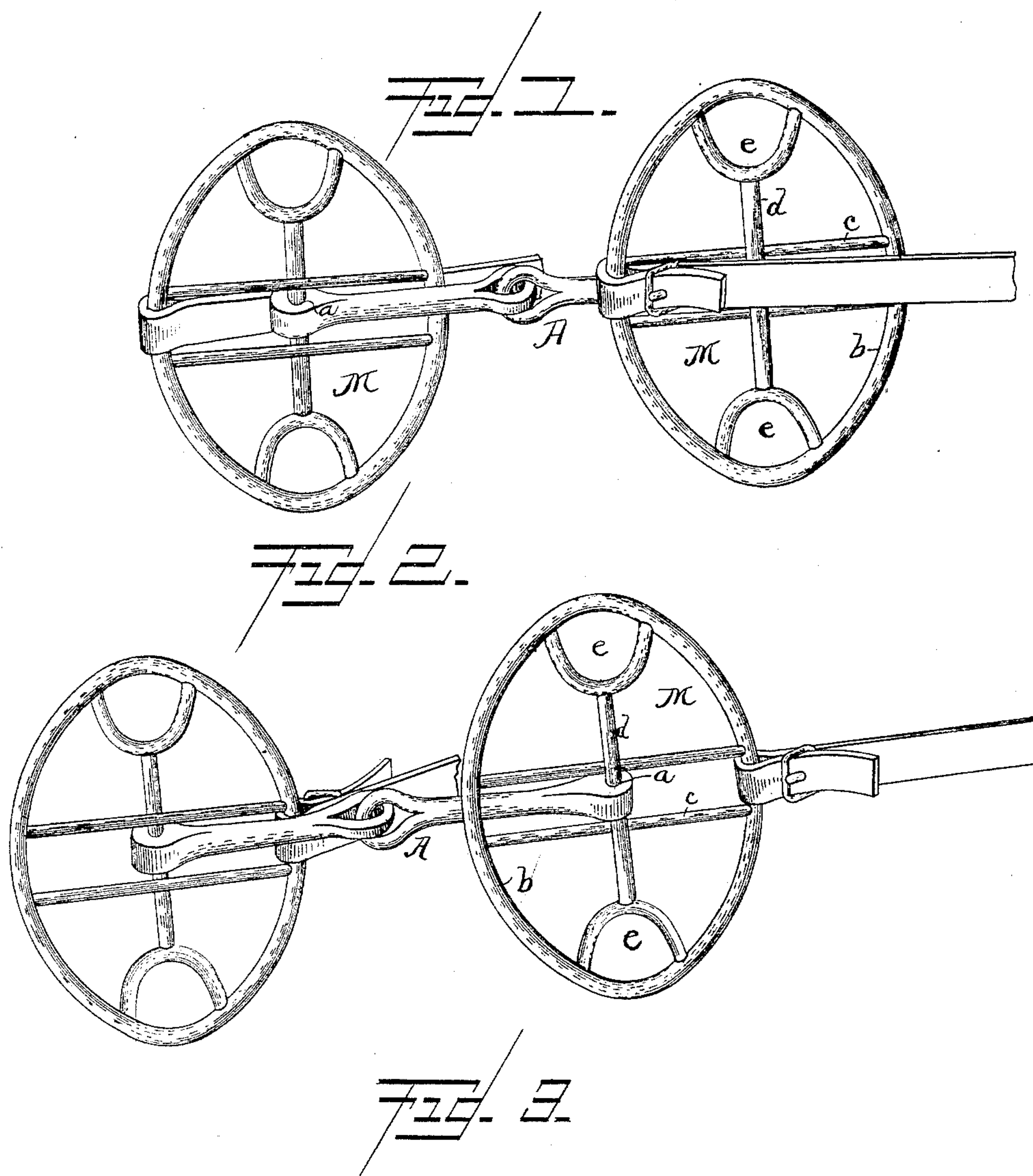


(No Model.)

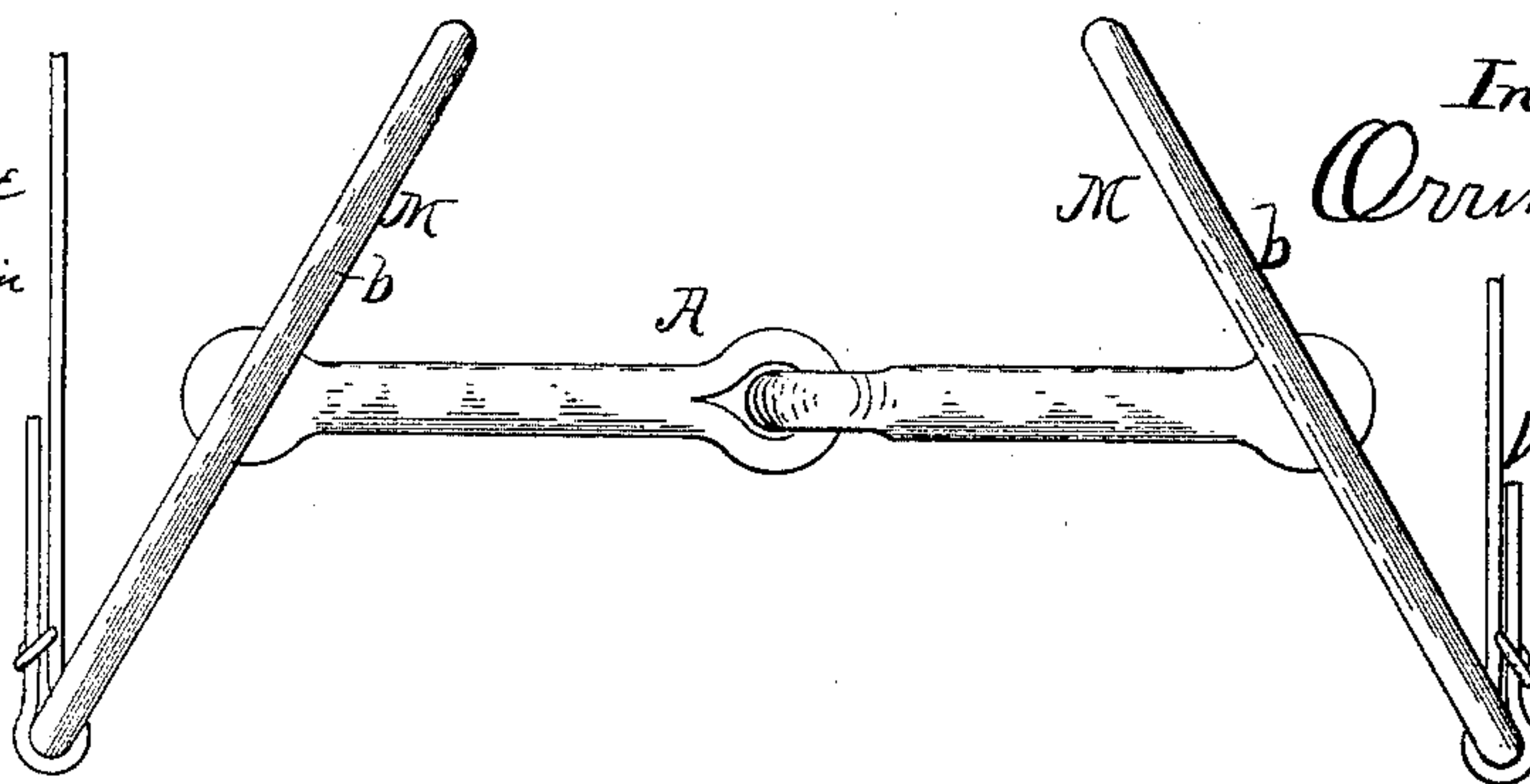
O. COMBS.  
BRIDLE BIT.

No. 477,102.

Patented June 14, 1892.



Witnesses.  
G. S. Frye  
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# UNITED STATES PATENT OFFICE.

ORRIN COMBS, OF WALNUT GROVE, ILLINOIS.

## BRIDLE-BIT.

SPECIFICATION forming part of Letters Patent No. 477,102, dated June 14, 1892.

Application filed March 12, 1892. Serial No. 424,712. (No model.)

*To all whom it may concern:*

Be it known that I, ORRIN COMBS, a citizen of the United States, residing at Walnut Grove, in the county of McDonough and State of Illinois, have invented certain new and useful Improvements in Bridle-Bits; 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 has relation to improvements in bridle-bits; and it consists in the provision of rings of such construction that the reins may be connected to the forward or rear portions thereof.

The invention further consists in so connecting the rings to the mouth bar or bars of the bit that when the reins are connected to the rear portions of said rings an easy and comfortable bit is afforded, and when the reins are connected to the forward portions of the rings the rear portions thereof will be pressed into the jaws of an animal at the slightest pull upon the reins, whereby it will be readily perceived that the driver is enabled to effectually control a fractious horse.

The invention will be fully understood from the following description and claim, when taken in conjunction with the accompanying drawings, in which—

Figure 1 is a perspective view of my improved bit in an operative position, the reins being connected to the forward portions of the rings. Fig. 2 is a perspective view of the bit, showing the reins connected to the rear portions of the rings; and Fig. 3 is a plan view of the bit.

In the said drawings similar letters designate corresponding parts throughout the several views, referring to which—

A indicates the mouth-bars of my improved bit, which have their inner ends flexibly or loosely connected together, as illustrated, and are provided in their outer ends with vertically-disposed eyes or apertures *a*, for a purpose presently described.

M indicates the rings of my improved bit, which are preferably of the proportional size

illustrated and are of the general circular form shown. These rings M, which are preferably formed from the same material as the mouth-bars, respectively comprise the rim or ring *b*, the parallel cross-bars *c*, the short diametrically-disposed bar *d*, extending at right angles to the bars *c*, and the loops *e*, connected at their ends to the rim *b* and at an intermediate point in the length to the ends of the bar *d*. The bars *d* of the rings M take through the apertures *a* in the outer ends of the mouth-bars A, which rest between the parallel cross-bars *c*, as illustrated, whereby it will be perceived that the rings are pivotally connected to the mouth-bar, so that the cross-bars *c* thereof rest in horizontal planes when the bit is in position.

When an easy and comfortable bit is desired, the reins are connected to the rear portions of the rings between the rear ends of the cross-bars *c*, as shown in Fig. 2, whereby it will be seen that the mouth-bars will act comfortably upon the mouth. When, however, a severe bit is desired, as for a fractious animal or one with a tough mouth, the reins are connected to the forward portions of the rings between the forward ends of the cross-bars *c*, whereby it will be perceived that when the reins are drawn the rear portions of the rings will be forced into the jaws of the animal, as shown in Fig. 1 of the drawings.

Although I have illustrated and described two mouth-bars, yet I do not desire to be confined to the same, as a single bar may be employed to an advantage.

From the foregoing description it will be readily perceived that I have provided a bridle-bit of a simple and cheap construction to which the reins may be readily connected, so that the bit will act easily or severely upon the mouth of the animal, and by reason of my bit acting upon the jaws of the animal, it will be further perceived that it will not in any manner injure the mouth.

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

The improved bridle-bit, substantially as

described, comprising a mouth-bar and the  
rings pivotally connected to the ends of said  
bar and having the parallel cross-bars *c*, the  
short diametrically-disposed bars *d*, extend-  
5 ing at right angles to the bars *c*, and the loops  
connected at an intermediate point in their  
length to the ends of the bars *d* and at their  
ends to the ring, all the parts of said ring ly-

ing in the same plane, substantially as and  
for the purpose set forth. 10

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

ORRIN COMBS.

Witnesses:

R. A. PINKLEY,  
JOHN COMBS.