

W. B. Hayden,
Bridle Bit,

N^o 63,156.

Patented Mar. 26, 1867.

Fig: 1.

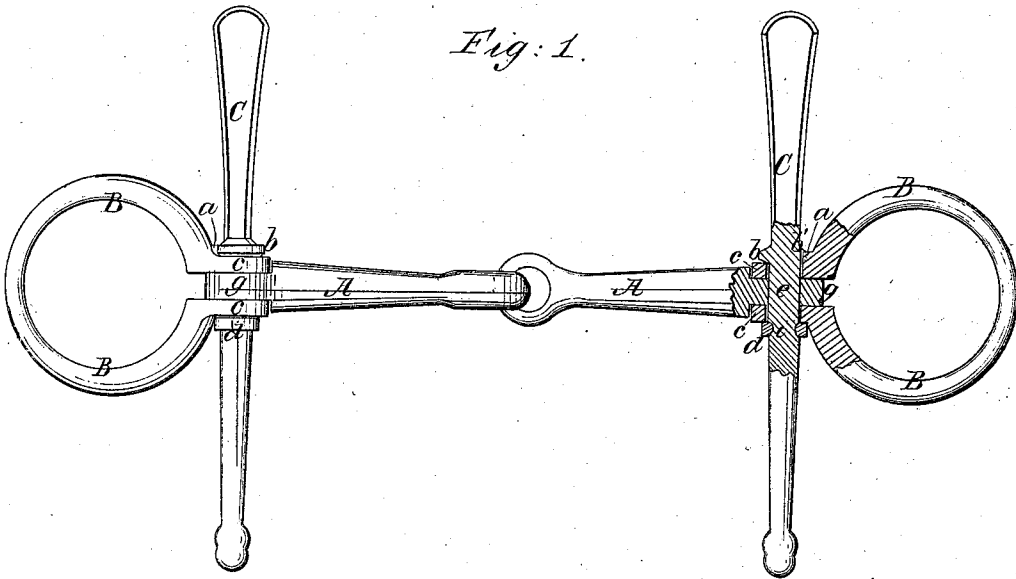


Fig: 5.



Fig: 2.

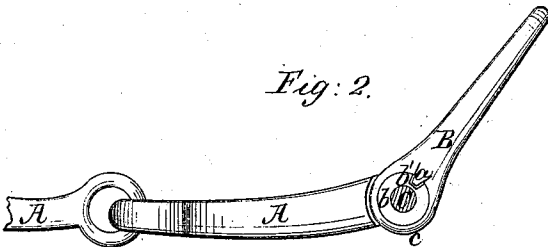


Fig: 3.

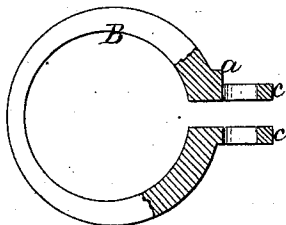
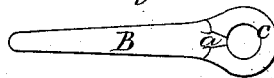


Fig: 4.



Witnesses:
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United States Patent Office.

WILLIAM B. HAYDEN, OF COLUMBUS, OHIO.

Letters Patent No. 63,156, dated March 26, 1867.

IMPROVED BRIDLE BIT.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, WILLIAM B. HAYDEN, of Columbus, in the county of Franklin, and State of Ohio, have invented a new and improved Bit; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a view of the improved bit, one part of which is shown in section.

Figure 2 is an edge view of one-half of the bit, with the upper portion of the cheek-piece broken away.

Figures 3, 4, and 5, show the construction of the rein-rings and cheek-pieces.

Similar letters of reference indicate corresponding parts in the several figures.

This invention relates to an improvement in the construction of bridle and harness bits, whereby their manufacture is greatly facilitated and cheapened, and the bits made in a neater and more substantial manner than hitherto.

The nature of my invention consists in constructing the rein-rings, cheek-pieces, and jointed mouth-pieces, in separate parts, and connecting these parts together by passing the cheek-pieces through eyes which are formed on the mouth-pieces and rings, and securing the whole together by bands or collars applied to the cheek-pieces, as will be hereinafter described.

To enable others skilled in the art to understand my invention, I will describe its construction and operation.

In the accompanying drawings, A A represent two sections, which are linked together so as to form a mouth-piece. The ends of this mouth-piece are flattened, rounded, and perforated, so as to form eyes *g g*, which are received between corresponding eyes or perforated jaws *c c*, formed on the rein-rings. C C represent the cheek-pieces, which are each constructed with a cylindrical pivot portion, *e*, near the centre thereof, which terminates at its upper end in an enlarged flange, *b*, having a notch, *b'*, formed in it, and which terminates at its lower end in an annular groove, *i*, adapted for receiving around it a band or collar, *d*, shown in fig. 1. The rings B B are each constructed with a key or tenon, *a*, upon it, which is adapted to fit snugly into the corresponding recess or notch *b'* which is made in the flange *b*, as shown in the drawings.

The several parts constituting the bit are put together by inserting the eye-pieces *g* on the mouth-pieces A, between the jaws or eye-pieces on the rings B. The cheek-pieces C are then dropped through the eyes *c c g*, so that the keys *a* will enter the notches *b'* in the flanges *b*, after which the bands *d* are secured in their grooves *i*, thus uniting the several parts firmly together, and forming the pivots for allowing the rings and cheek-pieces to articulate freely in the eye-pieces *g*.

Hitherto each rein-ring and cheek-piece was cast in one piece, and pivoted to the end of the mouth-piece by closing the open-eye joint on the latter piece, similar to the mode shown in fig. 2 for connecting together the two pieces forming the mouth-piece. By my invention the eyes, which are formed on the outer ends of the mouth-pieces, are solid or unbroken, and so also are the corresponding eyes which are formed on the rein-rings; consequently greater strength is obtained than under the old method. My bit is composed of a greater number of pieces than the old form of bits, but this is a decided advantage under the construction shown, as it admits of a greater number of pieces being moulded in a flask of a given size; and it is found that the bits can be finished, when made as described, much cheaper and more conveniently than the old bits.

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

1. A bridle or harness bit, which has its rein-rings attached to the mouth-piece by passing the cheek-pieces through solid eyes formed on said parts, substantially as described.
2. A bit which is composed of separately formed parts A, B, C, and *d*, put together substantially as described.

WM. B. HAYDEN.

Witnesses:

J. H. MARTIN,

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