

(No Model.)

A. BUERMANN.

BRIDLE BIT.

No. 356,918.

Patented Feb. 1, 1887.

Fig. 1.

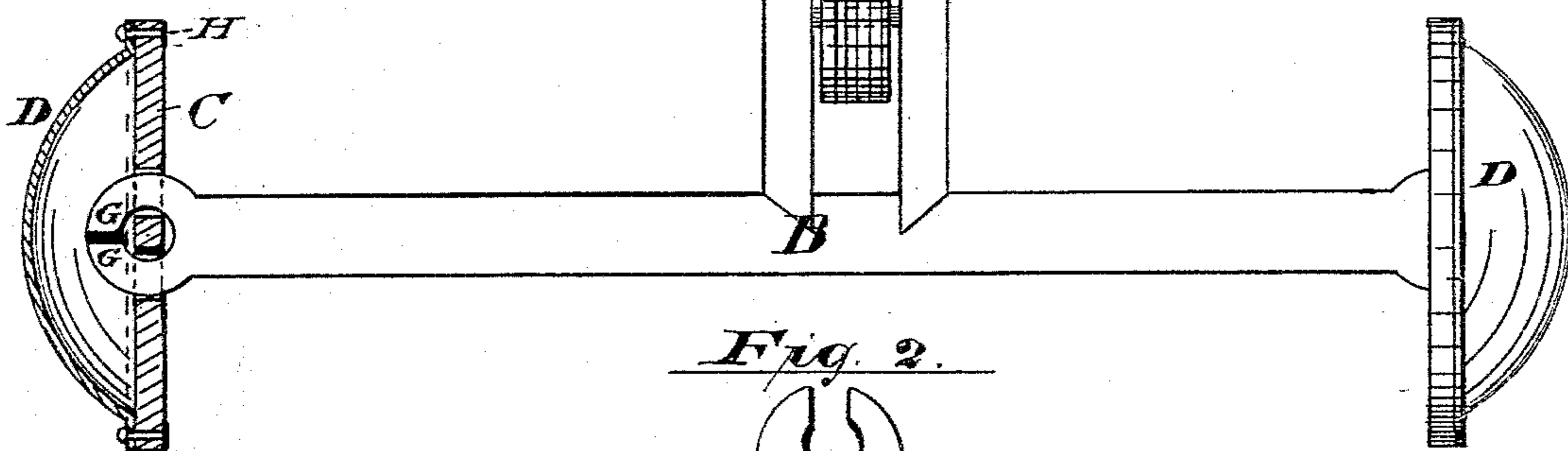
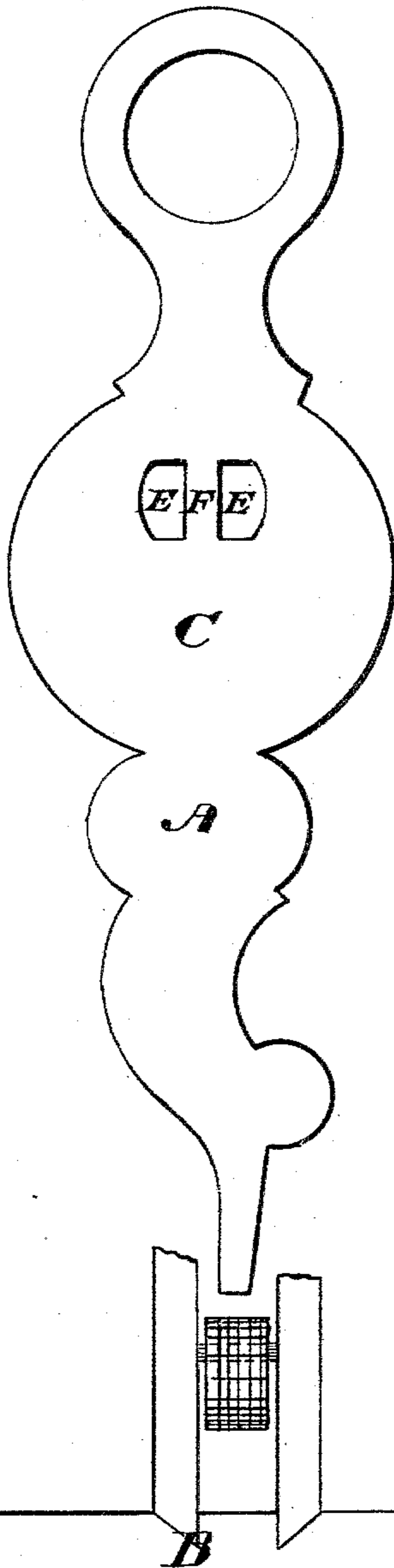


Fig. 2.



Fig. 3.

WITNESSES:

INVENTOR

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# UNITED STATES PATENT OFFICE.

AUGUST BUERMANN, OF NEWARK, NEW JERSEY.

## BRIDLE-BIT.

SPECIFICATION forming part of Letters Patent No. 356,918, dated February 1, 1887.

Application filed November 30, 1886. Serial No. 220,250. (No model.)

*To all whom it may concern:*

Be it known that I, AUGUST BUERMANN, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, 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, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

This invention relates to that class of bridle-bits known as "port" or "spade" mouth-piece bits, more commonly found in the western and southern portions of the United States, in which the mouth-piece having a port or spade and cheek-pieces are loosely united, so as to secure a limited pivotal play at the joints without having any material vertical sliding movement of one part on the other.

The invention consists in an improved bridle-bit and in the arrangements and combinations of parts, substantially as will be hereinafter set forth, and finally embodied in the clauses of the claim.

Referring to the accompanying drawings, in which like letters indicate corresponding parts in each of the several figures, Figure 1 is a side elevation of a cheek-piece. Fig. 2 is a plan showing the relation of the cheek-piece and mouth-piece, one of the cheek-pieces being in horizontal section; and Fig. 3 is a view of one end of the mouth-piece.

In said drawings, A indicates the cheek-piece, and B the mouth-piece. Said cheek-piece is considerably broadened at or near the center, as at C, and forms a seat for a concha or ornamental cap, D. In the upper portion, near the center of said broadened portion C, are formed a pair of small perforations, E E, forming a bar, F, which serves as a pivot upon which the mouth-piece may turn. The said perforations are about the size of the arms G G, formed at the extremities of the mouth-

piece, which enter said perforations and are bent together to hold the bit in place. The said mouth-piece and cheek-pieces are so united as that a limited pivotal motion is allowed both vertically and horizontally; but no material vertical sliding movement is allowed upon said pivotal bar. To the concha-seat, over the joints formed by said mouth-piece and cheek-pieces, are secured, either by rivets H H or by brazing, conchas or ornamental caps D D, which may serve to hide the extremities of the mouth-piece. Said arms G G are formed in pairs at the ends of the mouth-piece, and are of uniform size. By this construction greater strength is given to the joint than where a single arm is bent to surround the pivotal bar.

By having the looseness or play in the joint increased ease and pliability are secured in driving, and by means of the pair of perforations the mouth-piece joint may be brought to the middle of the cheek-piece, where it may readily be covered by a cap.

Having thus fully described my invention, what I claim as new is—

1. The combination, with a mouth-piece having arms G G at the opposite extremities thereof, of cheek-pieces having perforations E E therein of substantially uniform width and length with said arms, substantially as and for the purposes set forth.

2. The combination, with a mouth-piece having arms G G, of cheek-pieces having a concha-seat and perforations E E, of uniform length and width with said arms, and having a concha covering the joint between said mouth-piece and cheek-pieces, substantially as and for the purposes set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 27th day of November, 1886.

AUGUST BUERMANN.

Witnesses:

CHARLES H. PELL,  
WM. L. CORWIN.