

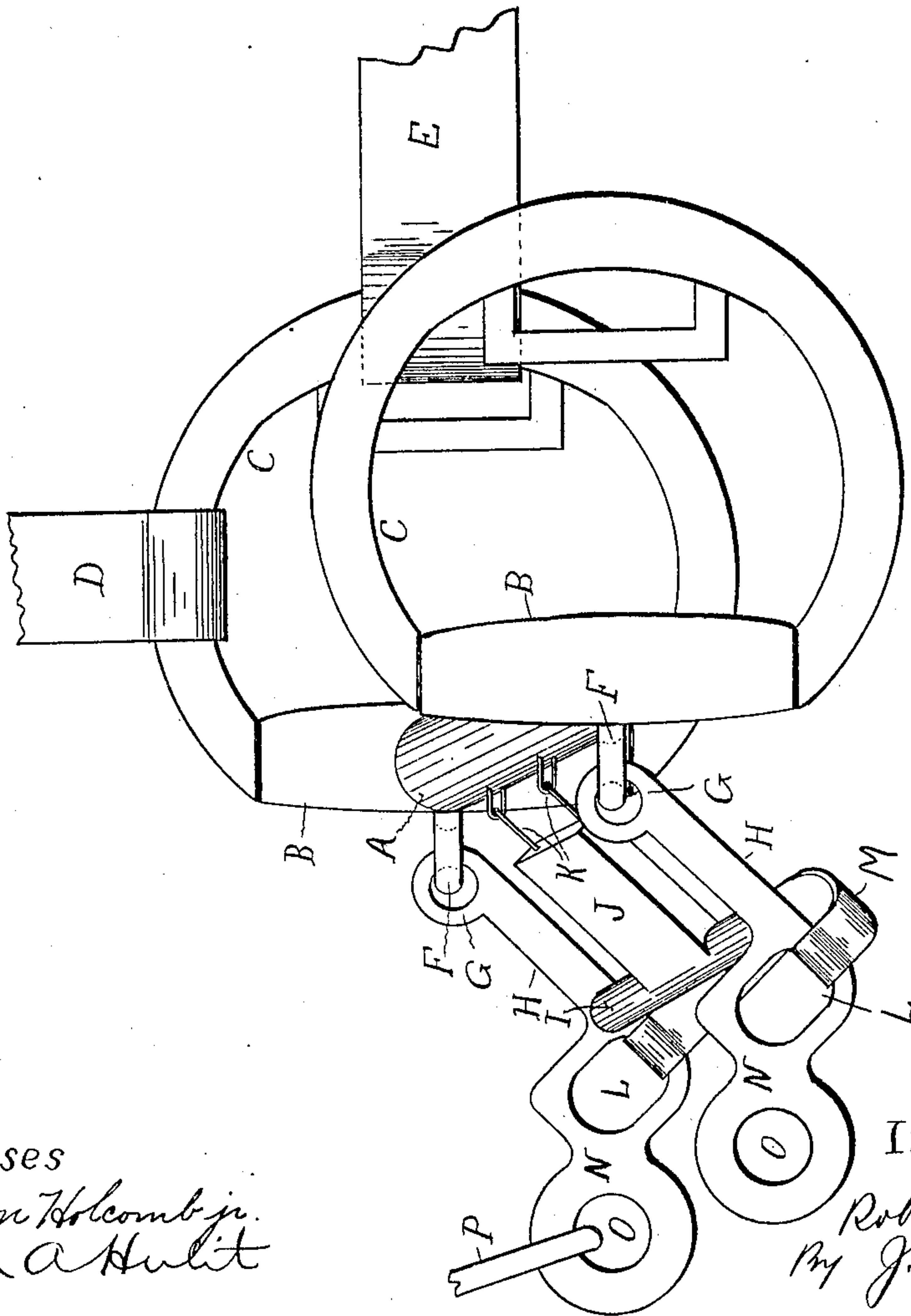
R. I. WATTS.

BIT.

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919,503.

Patented Apr. 27, 1909.



Witnesses

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# UNITED STATES PATENT OFFICE.

ROBERT I. WATTS, OF TOPEKA, KANSAS, ASSIGNOR TO OSCAR G. WOOLVERTON, OF TOPEKA, KANSAS.

BIT.

No. 919,503.

Specification of Letters Patent.

Patented April 27, 1909.

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*To all whom it may concern:*

Be it known that I, ROBERT I. WATTS, a citizen of the United States, residing at Topeka, in the county of Shawnee and State of Kansas, have invented a new and useful Improvement in Bits, of which the following is a specification.

My invention is an anti-pulling and anti-tongue-lolling bit.

The object of my invention is to improve generally upon bits; also to provide a bit by which the animal to which it is applied can be effectively prevented from pulling on the bit; also to provide a bit which will effectively prevent the animal from hanging out his tongue; also to provide an efficient combination bit for preventing both pulling and tongue-lolling; also to provide the parts, improvements, and combinations herein set forth and claimed. And my invention consists of the parts, improvements, and combinations herein described and claimed.

In the drawing accompanying and forming part of this specification, and in the description of the drawing, I have shown my invention in its preferred form, and have shown the best mode of applying the principles thereof; but it is to be understood that my invention itself is not confined to the exact details of that drawing or of that description, and that I contemplate changes in form, proportions, and materials, the transposition of parts, and the substitution of equivalent members, within the scope of the appended claims, without departing from the spirit of my invention.

The figure in the drawing is a perspective view of a bit made in accordance with the principles of my invention, with the rein, the cheek-piece, and the over-check secured to the rings on the far side.

A is the mouth-bar provided with end-pieces B, B, to which are pivoted the rings C, C, respectively. To these rings may be secured the reins E, and the cheek-pieces D, in the usual manner. On the front side of each end or end-piece of the mouth-bar is a perforated lug F, which is loosely engaged by the perforated end G of the side-piece H. Secured to, and extending between, the side-pieces, is an auxiliary mouth-bar I. This bar is spaced apart from the bar A, and is approximately at the outer ends of the side-bars H, H. Secured to the bar I is a plate J which extends backwardly or inwardly to-

ward the bar A, to which it may be connected by means of a pair of links K. The connection between the parts F, F, and G, G, and between the mouth-bar A and the plate J, is rather loose, so that the parts will not bind or pinch, and so that the side-bars and parts secured thereto including the plate J may swing freely on the hinges or pivots. At the outer end of each side-bar is a hole L, by which the chin-strap L may be secured to the outer ends of the side-bars. Each side-bar also has a forward or upward extension N which is perforated, as indicated by the characters O, for securing the over-check thereto.

In ordinary use, the side-bars hang down lengthwise of the animal's mouth, so as to cause no annoyance. If, however, the animal pulls on the bit, then the pull back on the reins against the upward pull by the over-check will draw up the side bars and with them the auxiliary bit I and plate J, together with the chin-strap M. And as the plate J then extends across the animal's mouth, he may be easily controlled and prevented from pulling. The same operation and position of the plate will also prevent the animal from hanging out his tongue, or tongue-lolling as it is usually called, as he cannot force his tongue between the two mouth-bars.

Obviously, the lolling-plate may be dispensed with where it is desired to use the bit for preventing pulling without the anti-tongue lolling feature.

What I claim is:

1. In a bit, the combination of a mouth-bar, side-bars pivoted to the ends thereof respectively, an auxiliary mouth-bar rigidly secured to and extending between the side-bars and spaced apart from the principal mouth-bar, a tongue-lolling plate rigidly secured to the auxiliary mouth-bar and extending between said mouth-bars and hinged to the principal mouth-bar, and a chin-strap secured to the outer ends of the side-bars, said side-bars each having a right-angular forward perforated extension for securing the over-check thereto.

2. In a bit, the combination of a mouth-bar, end-pieces therefor, a ring pivoted to each end-piece, a side-bar pivoted to each end-piece, an auxiliary mouth-bar rigidly secured to and extending between said side-bars and spaced apart from the principal mouth-bar, a tongue-lolling plate extending between said mouth-bars and rigidly secured



to the auxiliary mouth-bar and hinged to the principal mouth-bar, said side-bars having forward right-angular extensions with holes therein for securing thereto a chin-strap and  
5 an over-check, all substantially as described.

3. In a bit, the combination of a mouth-bar, side-bars pivoted to the ends thereof, respectively, an auxiliary mouth bar secured to and extending between the side-bars and  
10 spaced apart from the principal mouth-bar, and a chin-strap secured to the outer ends of the side-bars; said side-bars each having a right-angular forward extension for securing an over-check thereto.

15 4. In a bit, the combination of a mouth-bar, side-bars pivoted thereto at the ends, an auxiliary mouth-bar secured rigidly to and extending between the side-bars and spaced apart from the principal mouth-bar, and a  
20 chin-strap secured to the outer ends of the side-bars; said side-bars each having a right-angular forward perforated extension for securing an over-check thereto.

5. In a bit, the combination of a mouth-  
25 bar, side-bars pivoted to the respective ends

thereof, a rein-ring pivoted to each end of the mouth-bar, an auxiliary mouth-bar secured to and extending between the side-bars and spaced apart from the principal mouth-bar, and a chin-strap secured to the outer ends of  
30 said side-bars; said side-bars each having a forward extension for securing an over-check thereto.

6. In a bit, the combination of a principal mouth-bar, an end-piece on each end of said  
35 mouth-bar, a rein-ring pivoted to each end-piece, a side-bar pivoted to each end-piece, an auxiliary mouth-bar secured to and extending between said side-bars and spaced apart from the principal mouth-bar, and a  
40 chin-strap secured to the outer ends of the side-bars; said side-bars each having a right-angular forward extension for securing an over-check thereto.

In testimony whereof, I have hereunto set  
45 my hand, in the presence of witnesses.

ROBERT I. WATTS.

Witnesses:

MYRON HOLCOMB, Jr.,  
HAZEL D. RICHARDSON.