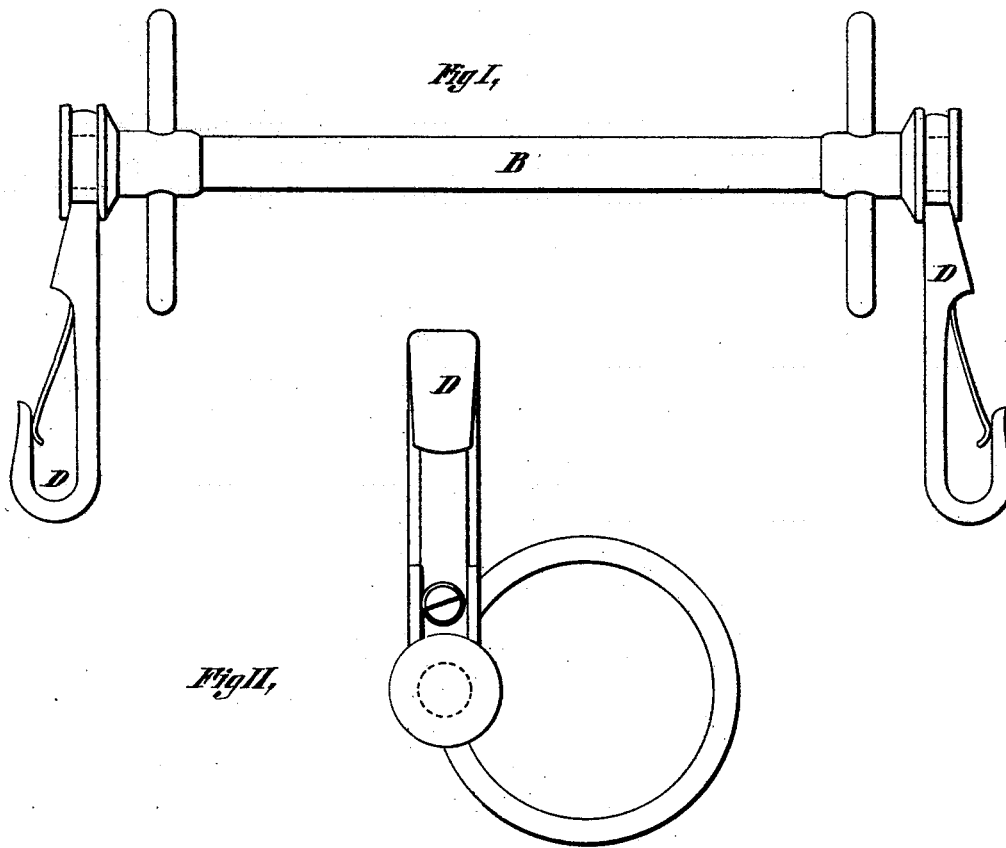


R. E. WHITMAN.

Driving-Bit.

No. 221,710.

Patented Nov. 18, 1879.



Witnesses
M. N. Burrall
Lee Brown

Inventor,
R. E. Whitman
By R. F. Hyde atty.

UNITED STATES PATENT OFFICE.

ROYAL E. WHITMAN, OF SPRINGFIELD, MASSACHUSETTS.

IMPROVEMENT IN DRIVING-BITS.

Specification forming part of Letters Patent No. **221,710**, dated November 18, 1879; application filed June 13, 1878.

To all whom it may concern:

Be it known that I, ROYAL E. WHITMAN, of Springfield, State of Massachusetts, have invented an Improvement in Driving-Bits, of which the following is a specification.

My invention consists in improvements upon the bit for which patent was granted me August 14, 1877, No. 194,202; and it consists in swiveling upon the ends of the mouth-piece of a bit snap-hooks, that, swinging upon the ends of the mouth-piece as their axes, shall always present handles at right angles to the mouth-piece, to enable the bit to be pushed into the horse's mouth from below, and then be swung up to be caught to the headstall or halter.

In the drawings, Figure I is a side view of a bit containing my present improvement with the snap-hooks swung down to serve as handles, and Fig. II is an end view with the snap-

hook turned up in the position to be caught in the bridle.

When the spring-hooks D D are attached, as shown, to the mouth-piece B, they form rigid handles to guide the bit into place, and effectually guard the hand by retaining the mouth-piece always at right angles to the handles; and it will be seen that the mouth-piece B being once inserted the handles D D can be swung up one at a time, or together, to be united to the bridle.

What I claim as my invention is—

As an improvement in bridles, the bit provided with end spring-hooks adapted to rotate about the mouth-piece, all substantially as shown, for the purpose set forth.

R. E. WHITMAN.

Witnesses:

R. F. HYDE,
T. M. BROWN.