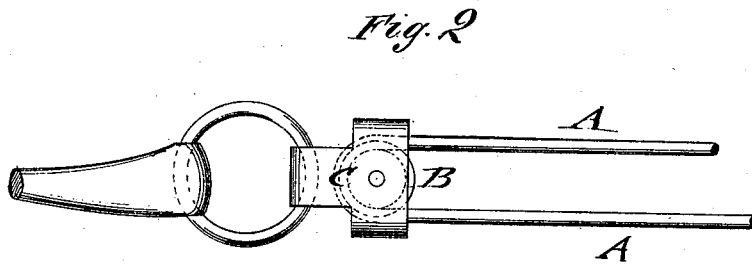
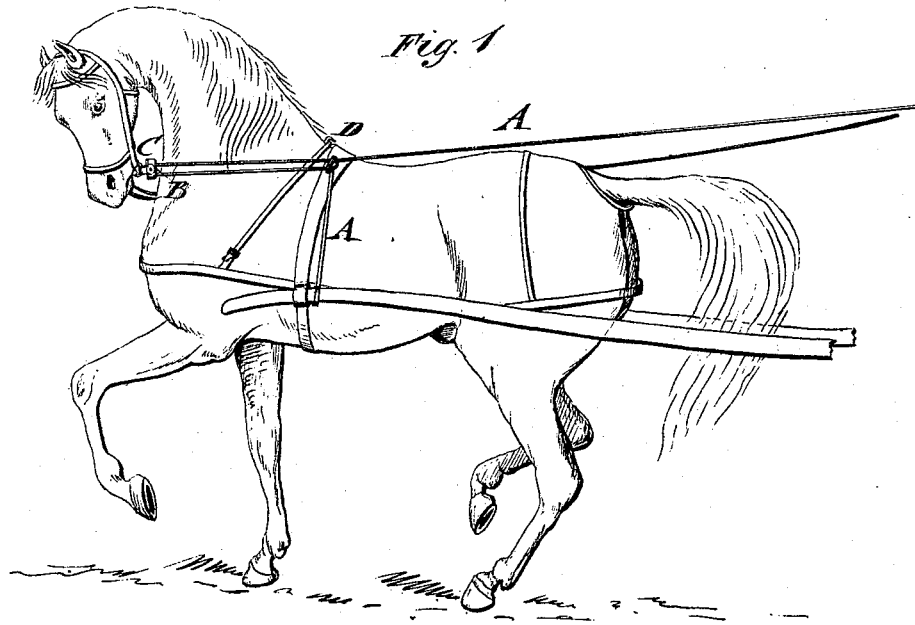


T. M. ALLEN.
BRIDLE BIT ATTACHMENT.

No. 180,184.

Patented July 25, 1876.



WITNESSES:
A. M. Amqvist
John Goethals

INVENTOR:
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BY *Munn & Co*
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UNITED STATES PATENT OFFICE.

THOMAS M. ALLEN, OF AUGUSTA, KENTUCKY.

IMPROVEMENT IN BRIDLE-BIT ATTACHMENTS.

Specification forming part of Letters Patent No. **180,184**, dated July 25, 1876; application filed February 28, 1876.

To all whom it may concern:

Be it known that I, THOMAS M. ALLEN, of the city of Augusta, in the county of Bracken and State of Kentucky, have invented a new and Improved Bridle-Bit Attachment, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a side view of my attachment to bridle-bits, shown as applied to a horse; and Fig. 2 is a detail side view of the same.

Similar letters of reference indicate corresponding parts.

My invention relates to an improved attachment bridle-bit for driving hard-mouthed horses with great facility; and it consists of the driving-lines being passed through a small pulley at the end of bridle-bit, and back through a loop in saddle, and then downward to shaft.

In the drawing, A represents the driving-line, that runs from the hand to the small pulley B, which turns in a casing, C, attached by a ring to the end of the bridle-bit. The rein A is passed over the pulley B, and run back

to a ring or loop, D, on saddle, and down to shaft, to be applied at same place as the back band, the disposition of the rein being clearly shown in Fig. 1.

A hard-mouthed horse is easily handled by the use of this attachment to bit, and has the free use of his head. The attachment is operated as easily as a single line, and forms a simple and reliable device for governing hard-mouthed horses without effort and trouble.

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

The combination, with the bit-pulleys B B, of the driving-lines A, having their ends fastened to the shafts, then passing up through the loops D, next through pulleys B, and then back through the loops to the vehicle, as shown and described.

THOMAS M. ALLEN.

Witnesses:

SAMUEL K. VEACH,
CHAS. R. MCCORMICK.