

(No Model.)

D. McCANCE.

BIT FOR HORSES.

No. 321,737.

Patented July 7, 1885.

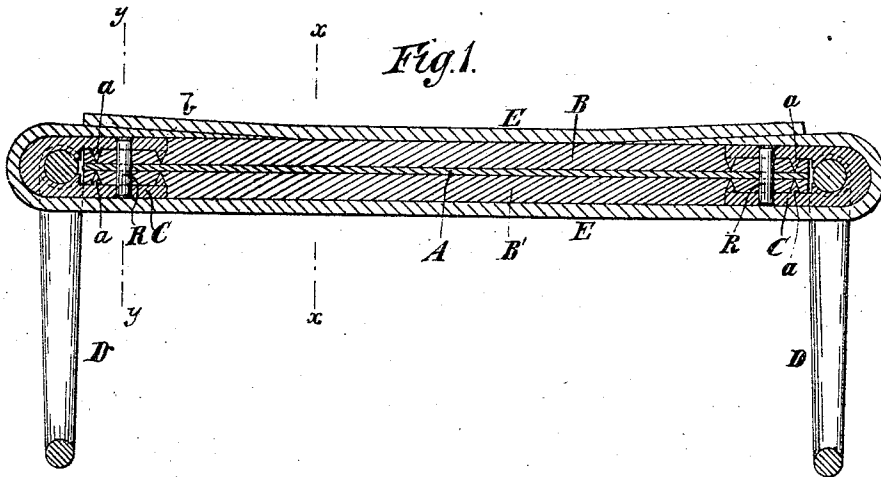


Fig. 1.

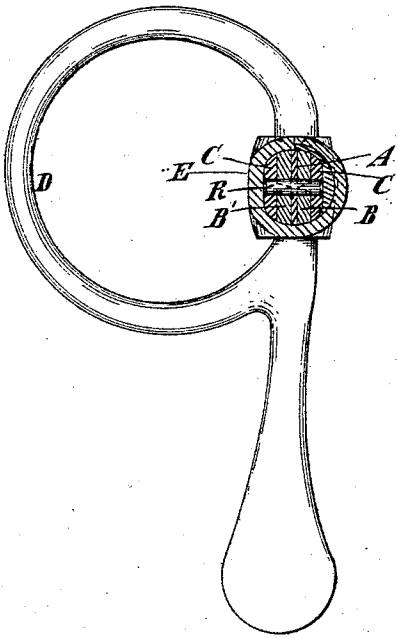
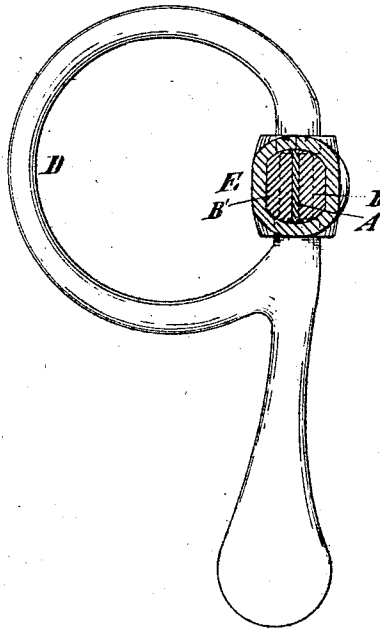


Fig. 2.



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DAVID McCANCE, OF NEWARK, NEW JERSEY.

BIT FOR HORSES.

SPECIFICATION forming part of Letters Patent No. 321,737, dated July 7, 1885.

Application filed November 28, 1884. (No model.)

To all whom it may concern:

Be it known that I, DAVID McCANCE, of Newark, in the county of Essex and State of New Jersey, have invented a certain new and useful Improvement in Bits for Horses, of which the following is a specification.

The object of my improvement is to produce a bit simple and cheap in construction, and withal having a soft surface, a capability of bending, and possessing the requisite strength.

I will describe in detail a bit embodying my improvement, and then point out the various features of the improvement in the claims.

In the accompanying drawings, Figure 1 is a longitudinal section of a bit embodying my improvement. Fig. 2 is a transverse section of the same taken at the plane of the dotted line *x x*, Fig. 1, and Fig. 3 is a transverse section of the same taken at the plane of the dotted line *y y*, Fig. 1.

Similar letters of reference designate corresponding parts in all the figures.

A designates a core-piece, consisting of a strip of steel, vulcanized rubber, or other resilient material. As shown, it is quite flat.

B B' designate two pieces of leather placed one on each side of the strip A.

C designates clips or clamps made of metal. They have sockets for cheeks or rings D, to which reins are to be attached. Their ends lap over the ends of the pieces of leather B B' and the resilient strip A. The ends of the clips C on the sides which are contiguous to the pieces B B' are provided with spurs *a*, which indent themselves into the pieces of leather B B'. Rivets R pass through the pieces of leather B B' and strip A. The heads of these rivets retain them in place. These rivets keep the ends of the clips in contact with the pieces of leather B B', and therefore hold the spurs of the clips in engagement with the said pieces of leather. The clips, and consequently the rings which are fitted to them, are very securely fastened by the spurs of the clips and the rivets to the pieces of leather B B' and strip A.

E designates a covering of leather, which is wrapped widthwise around the pieces of leather B B' and strip A, and has its longitudinal edges sewed together. At the ends of this covering are tongue-like portions *b*, which are passed around the outer ends of the clips C,

and also around the adjacent part of the rings D. The ends of the tongue-like portions *b* which are unattached to the covering E are tucked or slipped into the covering before the sewing of the latter is finished, and are secured by the sewing.

By my improvement I produce a bit which can bend longitudinally, which has a soft surface, and which, moreover, is very strong. On account of the peculiar construction of this bit it has advantages over all bits made of like material. The cheeks or rings of the bit being fastened to the mouth-piece by means of clips or clamps having spurs that hold the leather secure, and, in addition, having rivets that pass through and secure the clips or clamps both to leather pieces B B' and the core-piece A, it is next to impossible for the bit to come to pieces where the cheeks or rings are fastened to the mouth-piece, or at any place, thus doing away with all chances of horses running away, of loss of life and property occurring through the tearing of the cheeks or rings loose when a very heavy strain is brought directly on the bit. This danger has been the great drawback to the extensive introduction of leather bits.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In a bit, the combination of a resilient strip, pieces of leather arranged at the sides of the said strip, and clips or clamps for fastening cheeks or rings thereto, substantially as specified.

2. In a bit, the combination of a resilient strip, pieces of leather arranged at the sides of the said strip, clips embracing the ends of the pieces of leather and strip, and provided with spurs indenting themselves into the pieces of leather, and rivets passing through the strip, the pieces of leather, and the clips, substantially as specified.

3. In a bit, the combination of a resilient strip, pieces of leather arranged at the sides of the said strip, clips for fastening rings thereto, and a covering of leather, substantially as specified.

DAVID McCANCE.

Witnesses:

OBA WOODRUFF,
W. M. BERRY.