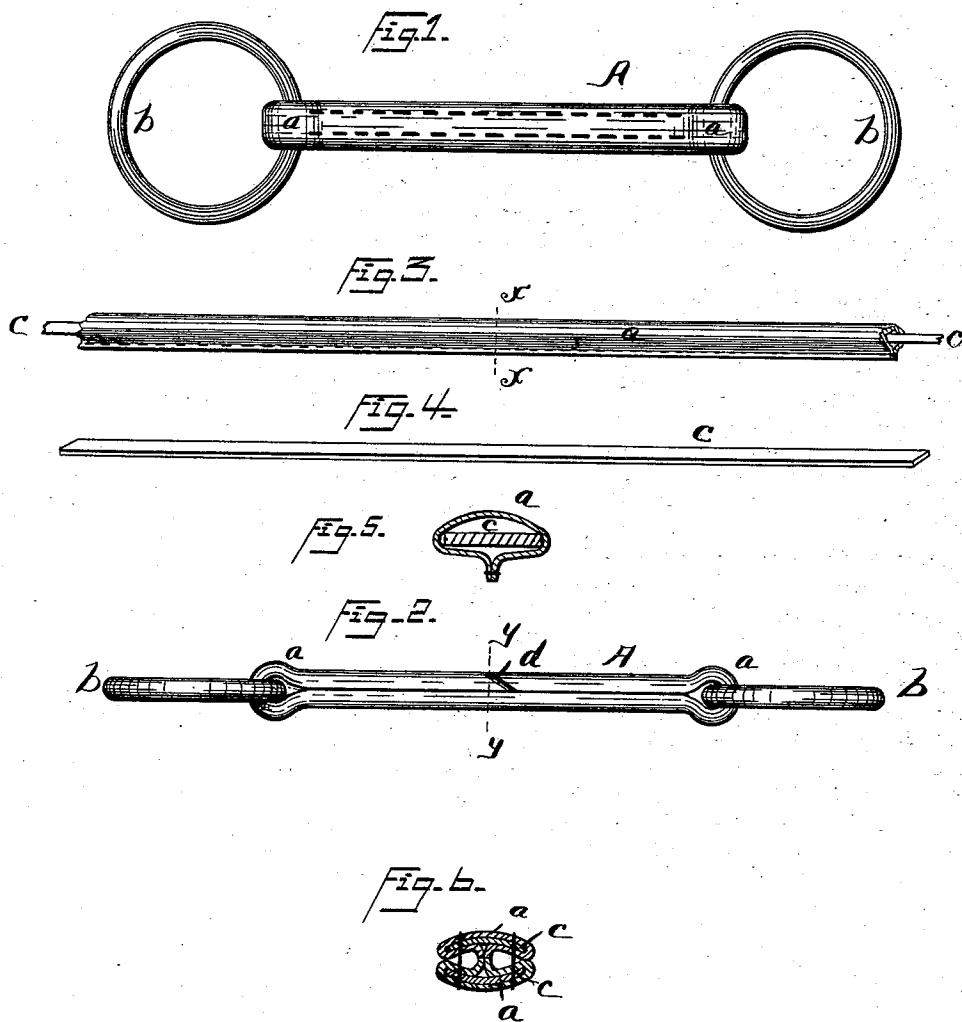


(No Model.)

E. E. WITHEY.
BRIDLE BIT.

No. 523,612.

Patented July 24, 1894.



WITNESSES:

Chas. M. Manning
W. M. Booth

INVENTOR

Ervin E. Withey

BY

Smith & Denison
ATTORNEYS.

UNITED STATES PATENT OFFICE.

ERVIN E. WITHEY, OF SYRACUSE, NEW YORK, ASSIGNOR TO THE DUGUID
SADDLERY COMPANY, OF SAME PLACE.

BRIDLE-BIT.

SPECIFICATION forming part of Letters Patent No. 523,612, dated July 24, 1894.

Application filed January 22, 1894. Serial No. 497,619. (No model.)

To all whom it may concern:

Be it known that I, ERVIN E. WITHEY, of Syracuse, in the county of Onondaga, in the State of New York, have invented new and
5 useful Improvements in Bits, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

This invention relates to bits, as a new article of manufacture, and adapted for general
10 driving purposes.

Heretofore the mouth-pieces for bits have been constructed of leather, raw-hide, or similar material, but in each instance it has consisted in doubling the material upon itself,
15 leaving the edges of the hide exposed to the action of the air and moisture, which has resulted in very soon allowing the mouth-piece to decay, thereby rendering it unsafe for use;
20 and, for the purpose of obviating this difficulty and objection, my object is to produce and construct a mouth-piece for a bit in which the raw edges are concealed for the purpose of excluding the air and moisture and exposing
25 but the grained side of the hide to the air and moisture; and to that end my invention consists in the several new and novel features of construction hereinafter described, and which are specifically set forth in the claims
30 hereunto annexed.

It is constructed as follows, reference being had to the accompanying drawings, in which—

Figure 1, shows a side view of the bit. Fig. 2, shows an edge view thereof. Fig. 3, shows
35 the construction of the mouth-piece. Fig. 4, is a view of the filler. Fig. 5, is a cross section on line *x-x*, Fig. 3. Fig. 6, is a cross section on line *y-y*, Fig. 2.

Similar letters of reference indicate corresponding parts.

A— is the bit complete, comprising the mouth-piece *a*— and cheek-piece, or ring,
45 *b*—. The mouth-piece is composed of a strip of raw-hide, or similar material, folded so as to present the grained surface outward, and having its edges stitched or otherwise secured together, as shown. *c*— is a filler of raw-hide, or other similar material, inclosed within the mouth-piece to give it additional

strength. The mouth-piece is then bent upon
50 itself as shown, inclosing the rings, the ends mitered together as shown at *d*—, and the whole stitched together so as to force the raw edges to firmly abut against each other for the purpose of excluding the air and
55 moisture.

It will be observed that I may also take a strip of raw-hide, or similar material, and fold it at a short distance from its lateral edges so as to have its edges approach each other and
60 lie substantially in the same plane, and then fold the entire piece transversely so as to inclose the cheek pieces, or rings, and secure the folds together laterally, and thereby exclude the air and moisture.

Having described my invention, what I claim is—

1. A mouth-piece for a bit, as a new article of manufacture, comprising a strip of raw-hide, or similar material, folded with the grain
70 out, its edges secured together, folded upon itself and secured laterally together for the purpose of causing the raw edges to abut against each other and exclude the air and moisture, as set forth.

2. A bit as a new article of manufacture, comprising a mouth-piece, constructed from a strip of raw-hide, or similar material, folded with the grain out, its edges secured together,
80 folded upon itself, rings within the folds at each end, the meeting edges mitered or dovetailed together, and the whole of said mouth-piece stitched or secured together laterally, as set forth.

3. A mouth-piece for a bit, as a new article
85 of manufacture, comprising a strip of raw-hide, or similar material, folded with the grain out, its lateral edges approaching each other and lying substantially in the same plane, then folded transversely to inclose the cheek-
90 piece, or ring, and the folds secured together laterally.

In witness whereof I have hereunto set my hand this 6th day of January, 1894.

E. E. WITHEY.

In presence of—

C. W. SMITH,
HOWARD P. DENISON.