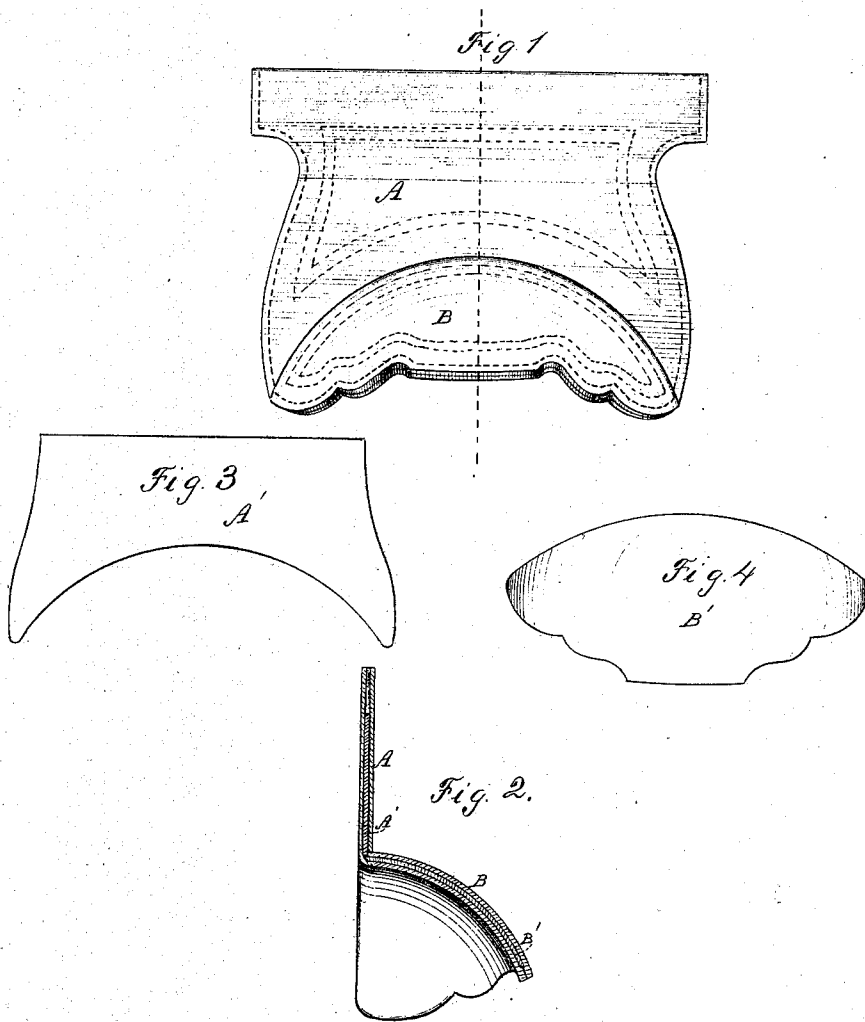


W. Boyd,

Harness Minker.

No. 105544.

Patented July 19, 1870.



Witnesses
A. Ruppert.
C. H. Clausen.

Wm. Boyd
Inventor.
D. P. Holloway & Co.
Atty

United States Patent Office.

WILLIAM BOYD, OF MANSFIELD, MASSACHUSETTS.

Letters Patent No. 105,544, dated July 19, 1870.

IMPROVED WINKER FOR HARNESS-BRIDLES.

The Schedule referred to in these Letters Patent and making part of the same

To all whom it may concern:

Be it known that I, WILLIAM BOYD, of Mansfield, in the county of Bristol and State of Massachusetts, have invented a certain Improvement in Bridle-Winkers; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the annexed drawings making part of this specification, in which—

Figure 1 is a plan view of my improved winker.

Figure 2 is a section on line *xx* of fig. 1, showing the metallic plates in the flat and crescent or flaring portions of the winker, and the seams uniting the two portions.

Figures 3 and 4 are plan views, representing the metallic plates used to keep the winker in the proper shape.

The same letters are used in all the figures, in the designation of identical parts.

This invention relates to winkers used in connection with horse-bridles, and the one hereinafter to be more fully described is designed as an improvement upon winkers patented to W. & W. F. Boyd, June 25, 1855, since extended.

The winkers described in the Letters Patent above referred to are made by cutting the leather in the desired shape, large enough to form both the flat and flaring portions, and afterward forcing properly-shaped metallic plates between the inner and outer pieces of leather, to give to the finished product the partly flat and partly flaring shape therein described.

It will be apparent, upon an inspection of the winkers made in that manner, that the leather along the swell in the flaring part, and also along the edge on which the bridle-check is sewed, must stretch somewhat, while it crimps along the base and outer edge of such part, and, as the very best of leather will crimp or stretch very little, or, practically, not at all, those winkers were of necessity made of an inferior quality of leather.

For this reason these otherwise very desirable winkers have not been adopted for the finest class of harness, in which the bridles are still provided with the old style of square blinders, so injurious to the eyes of horses.

My object in the present invention is to overcome the difficulty above stated, and to this end I propose to make the winkers in two distinct parts, the flat and the flaring or crescent portion, united together by sewing, stitching, or in other suitable manner.

To enable those skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

In the annexed drawings—

A represents the flat portion of the improved winker, which is to be attached to the bridle in the customary manner.

It is composed of a piece of best quality leather, which may be japanned upon the outer side, and a lining, between which the metallic plate A' is inserted, all being cut in the desired shape opposite the side where it is attached to the bridle to receive the flaring or crescent portion B.

In the construction of the latter, a japanned outer piece of leather and a lining are used to receive between them the curved metallic plate B'.

The manner of uniting the two parts A and B, and inserting the metallic plate A' in the flat, and B' in the flaring portion, for the purpose of keeping the winker permanently in shape, is as follows:

After the japanned leather of the crescent part is lined and stitched around the outside edge, it is sewed by an inside seam to the japanned leather of the flat part, and the hollow spherical segment B' having been properly placed between the two thicknesses of leather of the crescent part, the lining is drawn over such plate or segment, and sewed to the outer or curved edge of the japanned leather of the flat part, concealing the seam as much as possible.

The lining of the flat part is then sewed at its curved edge to the lining of the crescent part, and, after inserting the plate A' between the japanned leather and such lining, the two thicknesses of leather of the flat part are stitched together at the ends, and the winker finished in the usual manner around the edges.

It will be observed that the metallic plates are not employed in this case to shape the winker, but are simply used to retain it in shape.

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

The bridle-winkers herein described, the peculiarity of their construction consisting in making them in two distinct sections, a flat one, A A', and a flaring or crescent one, B B', united together substantially in the manner and for the purpose set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM BOYD.

Witnesses:

W. F. BOYD,
WM. B. BATES.