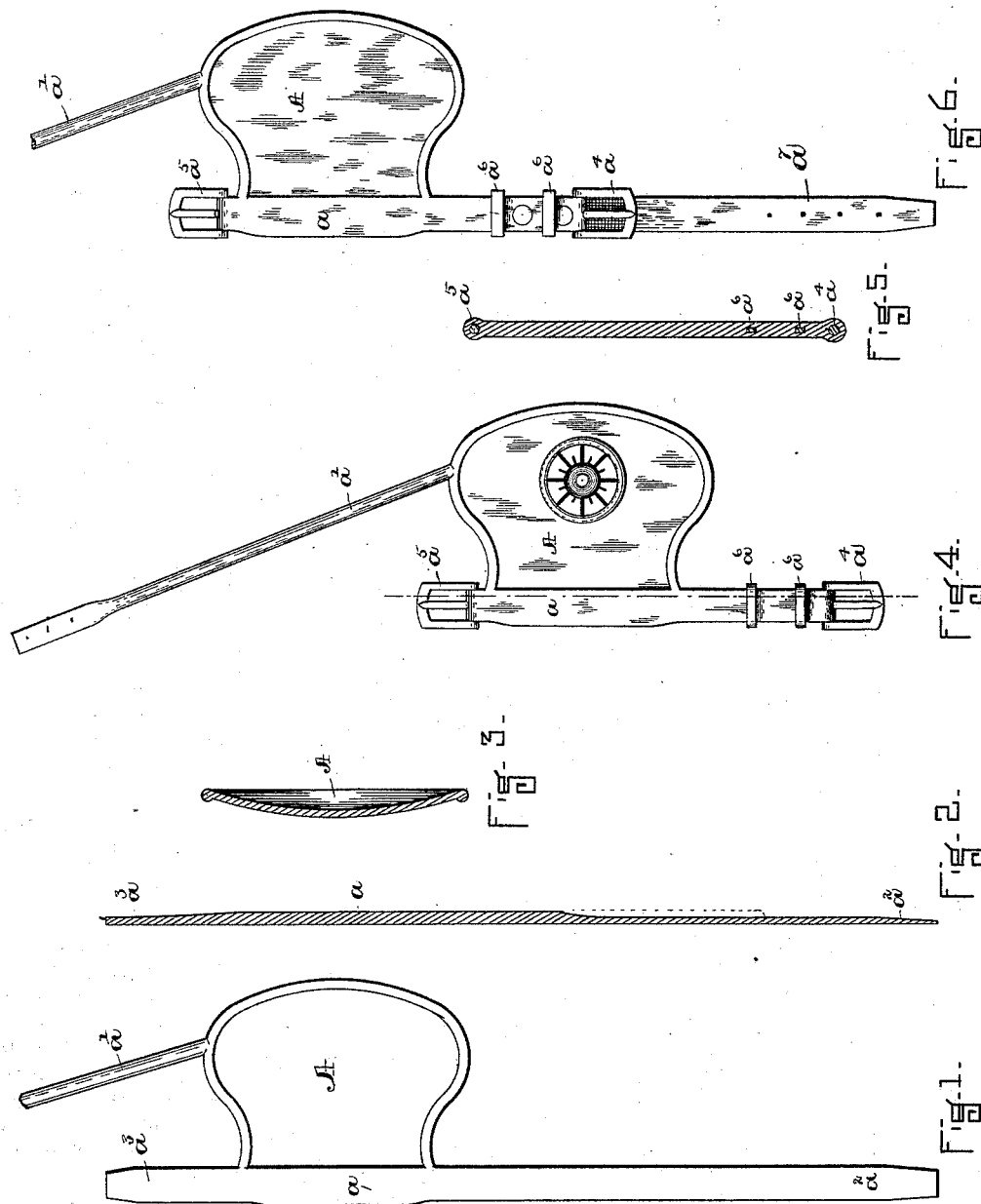


(No Model.)

M. S. STARKWEATHER.
BRIDLE BLINDER OR WINKER.

No. 422,652.

Patented Mar. 4, 1890.



WITNESSES.

J. W. Dolan
A. B. Merrill

INVENTOR.

Martin S. Starkweather
by his attys.
Clark & Gayman

UNITED STATES PATENT OFFICE.

MARTIN S. STARKWEATHER, OF BOSTON, MASSACHUSETTS.

BRIDLE BLINDER OR WINKER.

SPECIFICATION forming part of Letters Patent No. 422,652, dated March 4, 1890.

Application filed June 10, 1889. Serial No. 313,655. (No model.)

To all whom it may concern:

Be it known that I, MARTIN S. STARKWEATHER, of Boston, in the county of Suffolk and State of Massachusetts, a citizen of the United States, have invented a new and useful Improvement in Bridle Blinders or Winkers, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part of this specification, in explaining its nature.

The invention relates to the herein-described improvement in winkers or blinders for bridles.

Heretofore it has been customary to make the winker or blinder and the cheek-strap separate, and to unite the same by a process which involved considerable expense. My invention consists in making the winker and cheek-strap integral.

Referring to the drawings, Figure 1 is a view in elevation of a winker and cheek-strap having the features of my invention. Fig. 2 is a vertical section of the cheek-strap. Fig. 3 is a section through the winker. Fig. 4 is a view in elevation of the winker and cheek-strap, showing the buckles secured to the strap, as hereinafter specified. Fig. 5 is a section upon the dotted line of Fig. 4. Fig. 6 represents the attachment of a leather end or strap by riveting to the cheek-strap shown in Fig. 4.

In practicing the invention I take a moldable material containing rubber and capable of vulcanization, either re-enforced by fibrous material—like cloth or canvas—or wire-gauze, or both, and by means of suitable molds form under heat and pressure the winker or blinder A and the cheek-strap a, the blinder and cheek-strap being homogeneous and integral. There may also be formed at the same time and of the same material the crown-

strap a'. The cheek-strap may have its ends a² a³ shaped to be secured to buckles carried by or attached to other straps; or the buckles a⁴ a⁵ and loops a⁶ may be united to the ends of the cheek-strap by molding the material about the same during the formation of the winker and strap, as represented in Figs. 4 and 5, in which event a leather strap end a⁷ is subsequently riveted to the lower end of the cheek-strap, as represented in Fig. 6. By making the winker and cheek-strap of moldable material and integral the cost of construction is materially diminished and a desirable result obtained and without the expenditure of the labor necessary in uniting the winker to the cheek-strap.

Having thus fully described my invention, I claim and desire to secure by Letters Patent of the United States—

1. As an improved article of manufacture, a blinder or winker of moldable material molded to the required shape and having attached thereto the buckles a³ a⁴, and also having formed of moldable material and molded integral with the blinder or winker the strap a', substantially as set forth.

2. The blinder A, its integral cheek-strap a, having the molded-in buckles a⁴ a⁵, and the leather strap a⁷, united to the cheek-strap, substantially as described.

3. The combination, with the molded blind A and the molded cheek-strap a, integral therewith and provided with molded-in buckles a⁴ a⁵ and the molded-in loops a⁶, of the strap a⁷, attached to said cheek-strap, substantially as set forth.

MARTIN S. STARKWEATHER.

Witnesses:

F. F. RAYMOND, 2d,
J. M. DOLAN.