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PATENTED MAY 28, 1907.

S. F. MAINSTER & F. E. WILSON.

FEED BAG.

APPLICATION FILED MAR. 2, 1907.

2 SHEETS—SHEET 1.

Fig. 1.

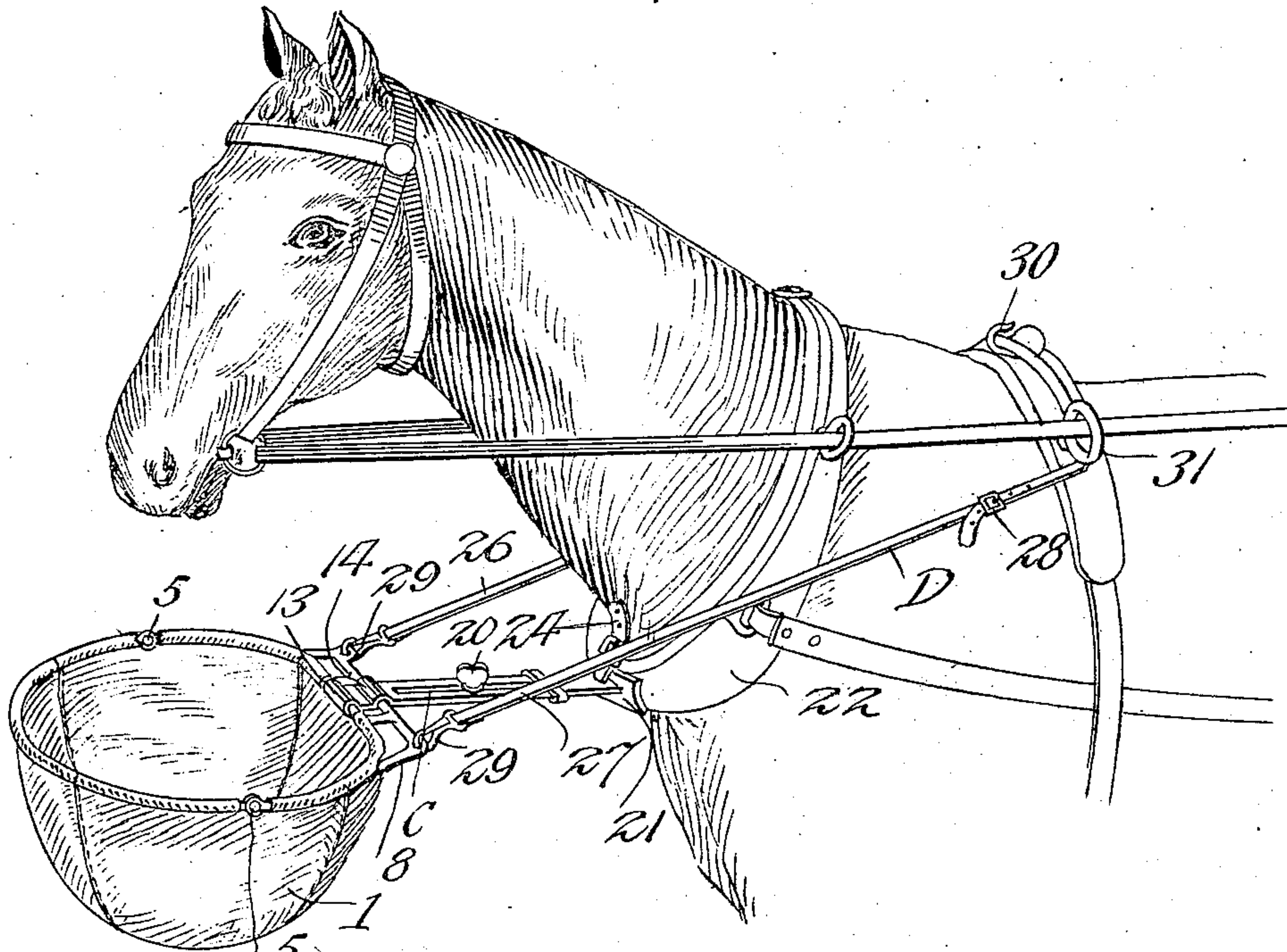


Fig. 5.

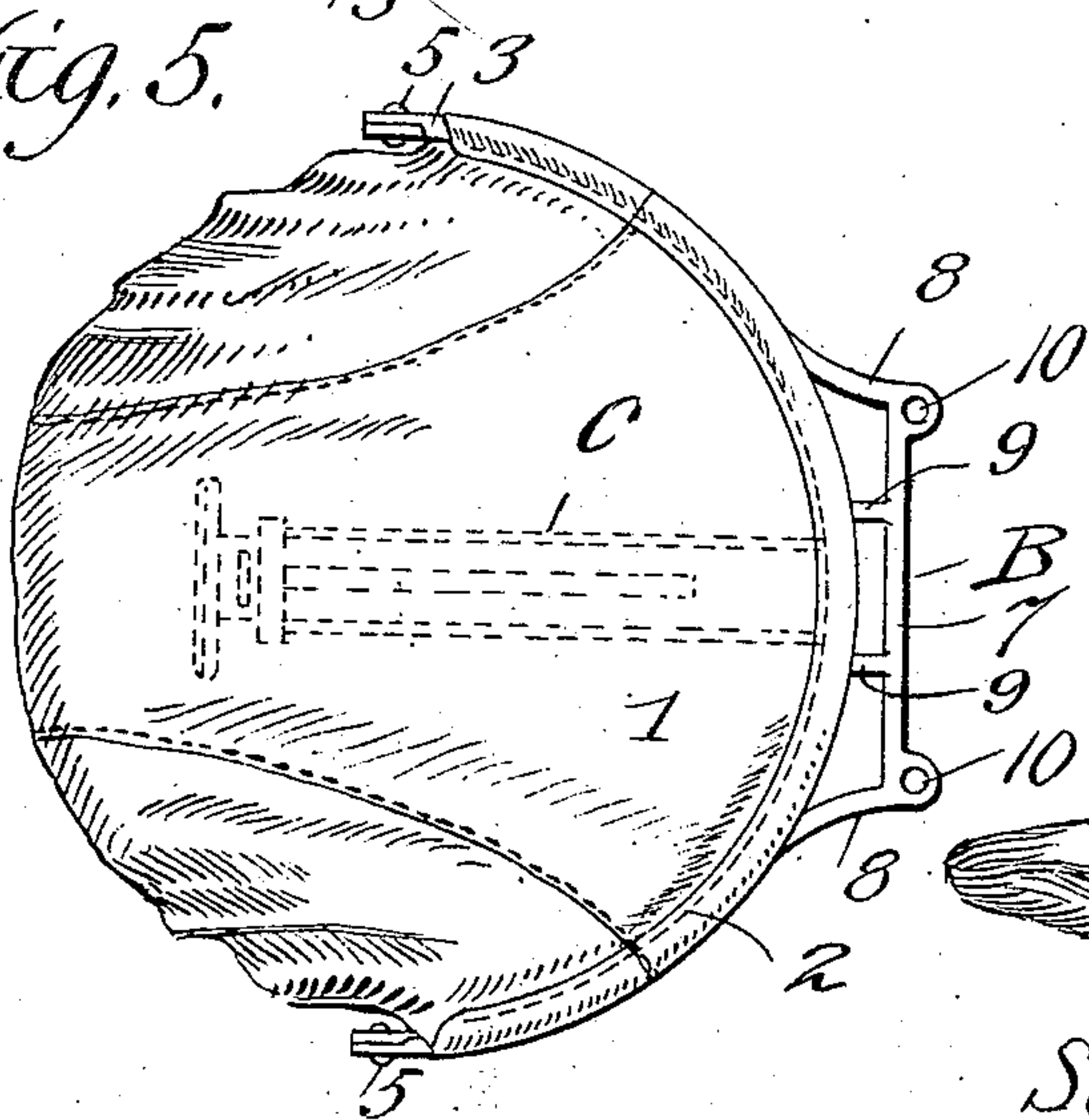
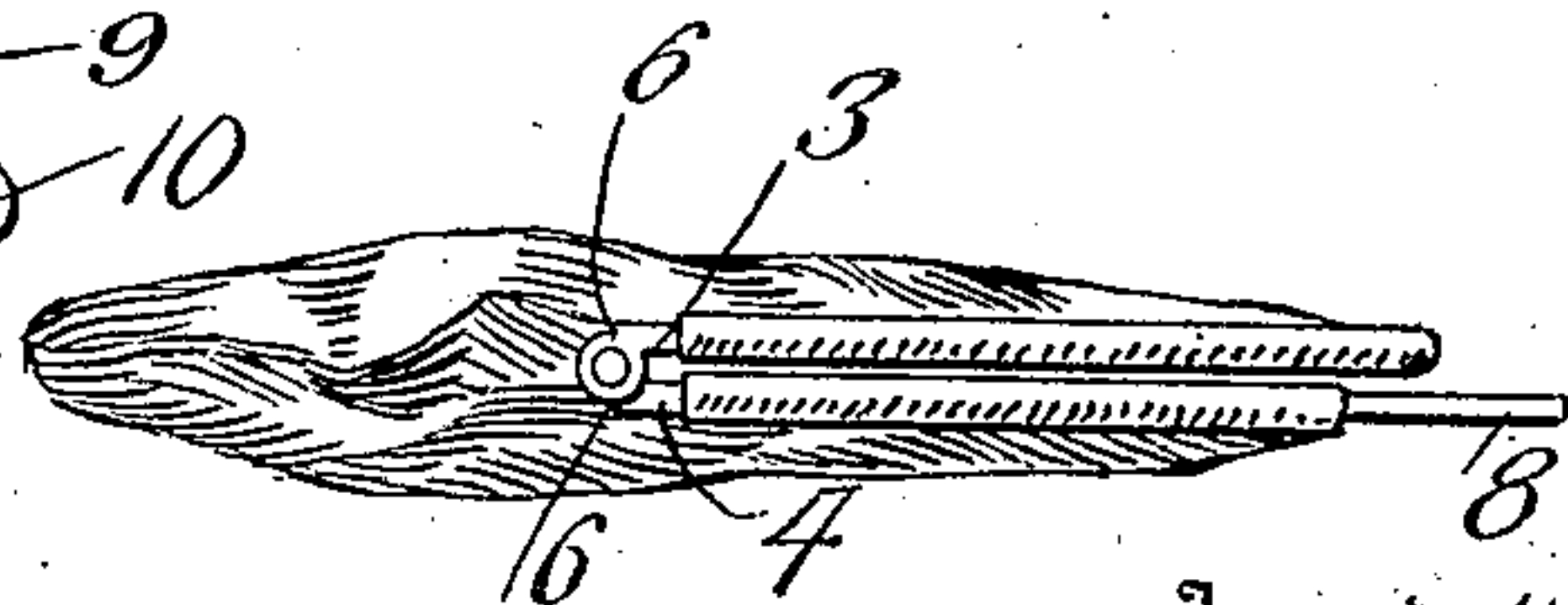


Fig. 6.



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2 SHEETS—SHEET 2.

Fig. 2.

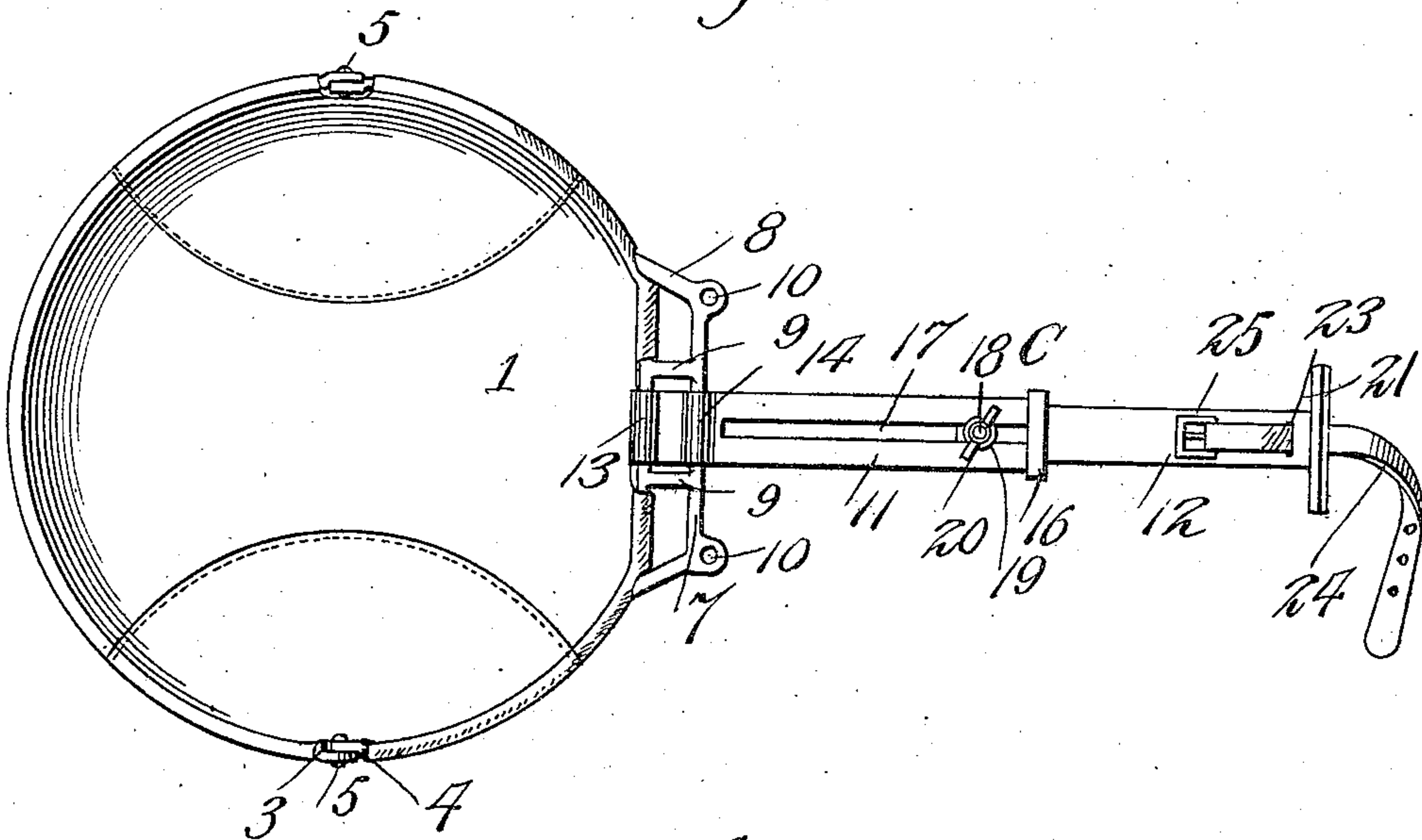


Fig. 3.

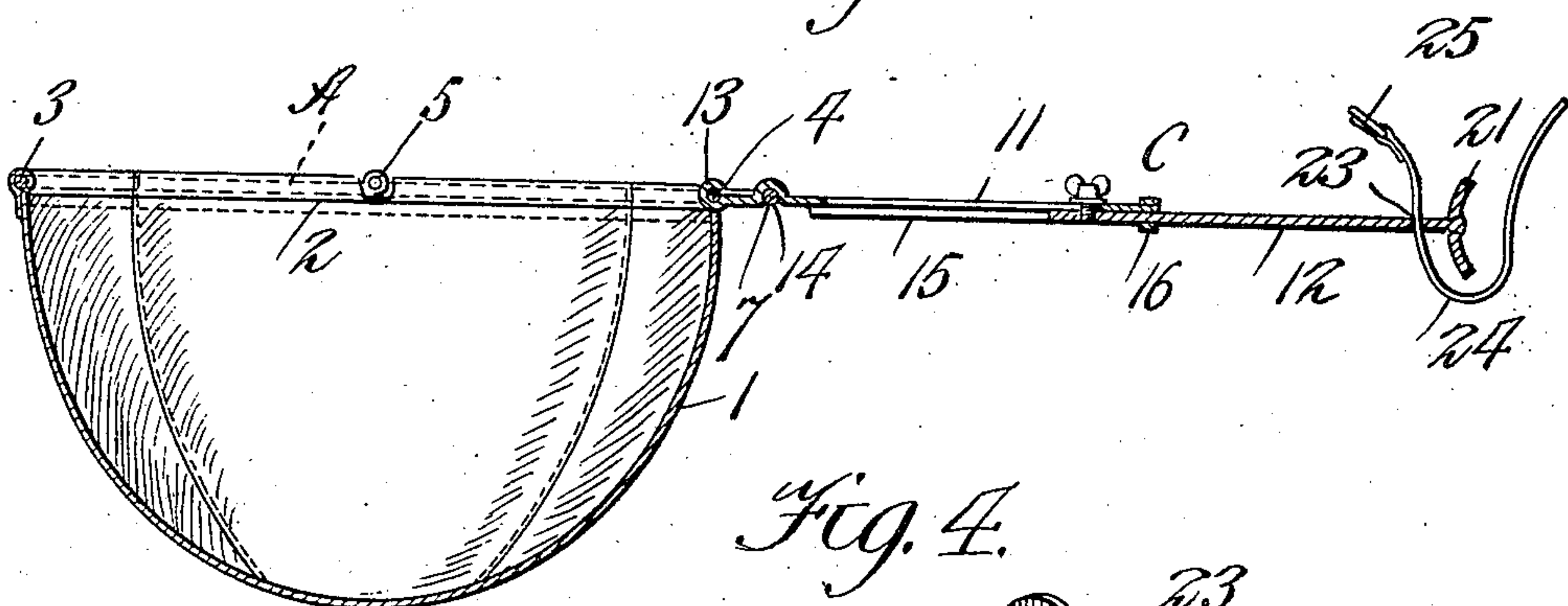
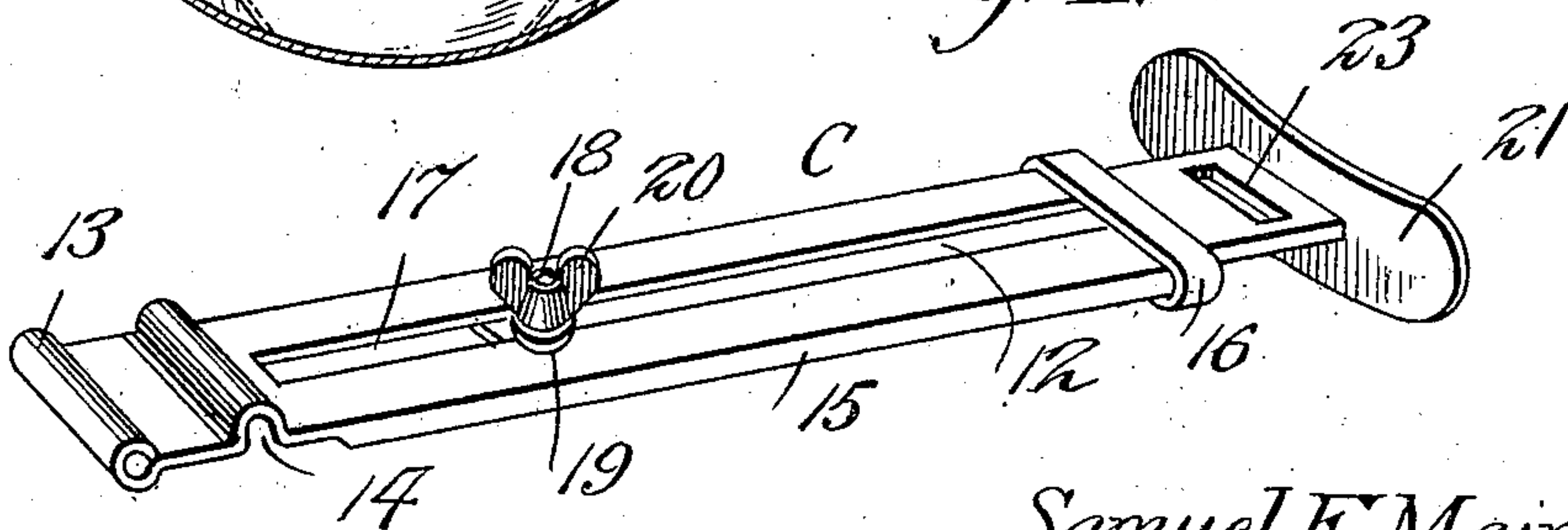


Fig. 4.



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UNITED STATES PATENT OFFICE.

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FEED-BAG.

No. 855,194.

Specification of Letters Patent.

Patented May 28, 1907.

Application filed March 2, 1907. Serial No. 360,199.

To all whom it may concern:

Be it known that we, SAMUEL F. MAINSTER and FREDERICK E. WILSON, citizens of the United States, residing at Baltimore, in the State of Maryland, have invented new and useful Improvements in Feed-Bags, of which the following is a specification.

This invention relates to feed bags, and it has for its object to provide a simple and efficient device of this class which shall be so constructed that when not in use it may be folded in small compass for storage or transportation; which shall be provided with simple and improved means whereby it may be connected with the harness in such a manner that it will be supported in a convenient position below and adjacent to the head of the animal without interfering with the free movement of the latter; which may be readily adjusted to animals of different sizes; and which shall possess superior advantages in point of simplicity, durability and general efficiency.

With these and other ends in view which will readily appear as the nature of the invention is better understood, the same consists in the improved construction and novel arrangement and combination of parts which will be hereinafter fully described and particularly pointed out in the claims.

In the accompanying drawings has been illustrated a simple and preferred form of the invention; it being, however, understood that no limitation is necessarily made to the precise structural details therein exhibited, but that changes, alterations and modifications within the scope of the invention may be resorted to when desired.

In the drawings, Figure 1 is a perspective view showing the improved feed bag applied in position for operation to the harness of a horse. Fig. 2 is a top plan view showing the feed bag and the rigid supporting member or brace connected therewith. Fig. 3 is a longitudinal sectional view of the parts shown in Fig. 2. Fig. 4 is a perspective view showing the brace or supporting member, detached. Fig. 5 is a top plan view showing the feed bag collapsed or folded, and with dotted lines indicating the position of the brace or supporting member within the same.

Fig. 6 is a side view showing the feed bag collapsed or folded.

Corresponding parts in the several figures are denoted by like characters of reference.

The feed bag 1, which may be of any suitable and appropriate shape and dimensions is made of flexible, preferably textile material, such as canvas, and it is provided along its upper edge with a hem 2 forming an annular channel wherein is inserted a distending hoop or frame A which is preferably of approximately circular shape, and which is composed of two approximately semi-circular parts or members 3 and 4, pivotally connected by means of pins or bolts 5 which are disposed in axial alinement at diametrically opposite sides of the hoop, so that the parts or members of the latter may be folded together, as will be clearly seen in Fig. 6 of the drawings; said parts or members being provided with shoulders or offsets 6 adapted to abut upon each other when the hoop is extended for the purpose of distending the bag, as will be seen in Figs. 1, 2 and 3, so as to maintain the bag in distended position.

The member 4 of the hoop A is provided with a rearwardly extending auxiliary frame B including a cross-bar 7 connected with the hoop member by means of arms 8 and intermediate braces 9, said cross-bar being provided at the ends thereof with eyes 10—10.

C designates an adjustable and collapsible supporting member or brace which, as shown, is composed of two bars or plates 11 and 12. The front end of the plate 11 is bent to form a sleeve 13 whereby it is hinged upon the hoop member 4 intermediate the braces 9—9, said plate being also provided with a transverse groove or channel 14 adapted to engage the cross-bar 7 of the frame B intermediate said braces 9; the plate 11 is also provided at its side edges with downturned flanges 15 and at its rear end with a transversely disposed loop 16 for the reception of the plate 12 which is slidably disposed in said loop between the flanges 15; the plate 11 is provided with a longitudinal slot 17 wherein operates a set screw or bolt 18 suitably connected with the plate 12 and having a washer 19 and a wing nut 20 which may be tightened to secure the plates 11 and 12 at

various adjustments. The plate 12 is provided at its rear end with a supporting plate 21 adapted to rest against the base of the horse collar 22 as will be clearly seen in Fig. 1 of the drawings, and in the plate 12, adjacent to said supporting plate, is formed a transverse slot 23 for the passage of a strap 24 having a buckle 25 whereby it may be quickly and securely connected with the collar.

A guy strap D is provided, said strap being preferably composed of two parts or members 26—27 adjustably connected by a buckle 28 and having terminal snap hooks 29 adapted to be connected with the eyes 10 at the ends of the cross-bar 7; said guy strap being in practice engaged with the check hook 30 and the terrets 31 of the harness saddle for the purpose of sustaining the weight of the feed bag and supporting the latter at the proper elevation which may be regulated by lengthening or shortening the guy strap by means of the buckle 28.

In practice, the brace or supporting member C may be adjusted as to length by properly adjusting its component members 11 and 12 and securing the same in the desired relation by tightening the nut 20 upon the connecting bolt 18. Said brace or supporting member extends rearwardly from the distending hoop of the feed bag, and is connected at its rear end with the base of the collar, thus spacing the feed bag from the latter and supporting it in a convenient position below the head of the animal; the feed bag being stayed and held in position by means of the guy strap D. The feed bag will thus be supported in a very convenient position to render its contents readily accessible to the animal, which is enabled to move its head freely without danger of upsetting the bag and wasting its contents.

When the device is not in use, the brace or supporting member C may be collapsed and folded within the bag, the distending hoop of which may likewise be folded so as to occupy but little space; the brace or supporting member C being stored within the bag as will be seen in Fig. 5. It is obvious that the connecting strap 24 and the guy strap D may likewise be stored within the bag, if desired.

The improved feed bag which constitutes this invention imposes no weight upon the head of the animal, which is an objectionable feature of the nose bags commonly employed, and the breathing of the animal will not be obstructed as by the ordinary nose bag.

The improved device is simple in construction, inexpensive, and thoroughly efficient for the purposes for which it is provided.

Having thus fully described the invention, what I claim as new is:—

1. In a device of the class described, a flexible bag, a foldable distending hoop for said bag comprising two hingedly connected members, one of which is provided with an auxiliary frame including a cross-bar and arms and braces connecting said cross-bar with the hoop member, a supporting member hinged upon the hoop member intermediate the braces extending from the latter and having a transverse channel engaging the cross-bar, and a guy strap having snap hooks connected with the ends of the cross-bar.

2. In a device of the class described, a collapsible bag having a foldable distending hoop, a cross-bar connected with and spaced from the hoop, and having apertures at the ends thereof, a supporting member hingedly connected with the hoop and having a transverse groove or channel adapted for engagement with the cross-bar, said brace comprising two slidably connected plates one of which is provided with a supporting member at its rear end and with a transverse slot adjacent to said supporting member, a collar engaging strap in said slot, and an adjustable guy strap provided at its ends with snap hooks to engage the apertures at the ends of the cross-bar connected with the distending hoop.

3. In a device of the class described, the combination with a collapsible bag having a foldable distending hoop and a cross-bar spaced from and connected with said hoop, of a guy strap connected with the ends of the cross-bar, and a brace or supporting member comprising two slidably connected plates, one of said plates being hingedly connected with the hoop and provided with a transverse channel for engagement with the cross-bar, downturned side flanges, and a loop at its rear end, and the other plate being fitted to slide in said loop between the side flanges and provided at its rear end with a supporting plate and a collar engaging strap.

In testimony whereof, we affix our signatures in presence of two witnesses.

SAMUEL F. MAINSTER.
FREDERICK E. WILSON.

Witnesses:

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