

No. 751,358.

PATENTED FEB. 2, 1904.

J. V. STONE.
HORSE COLLAR.

APPLICATION FILED MAY 24, 1902.

NO MODEL.

Fig. 1.

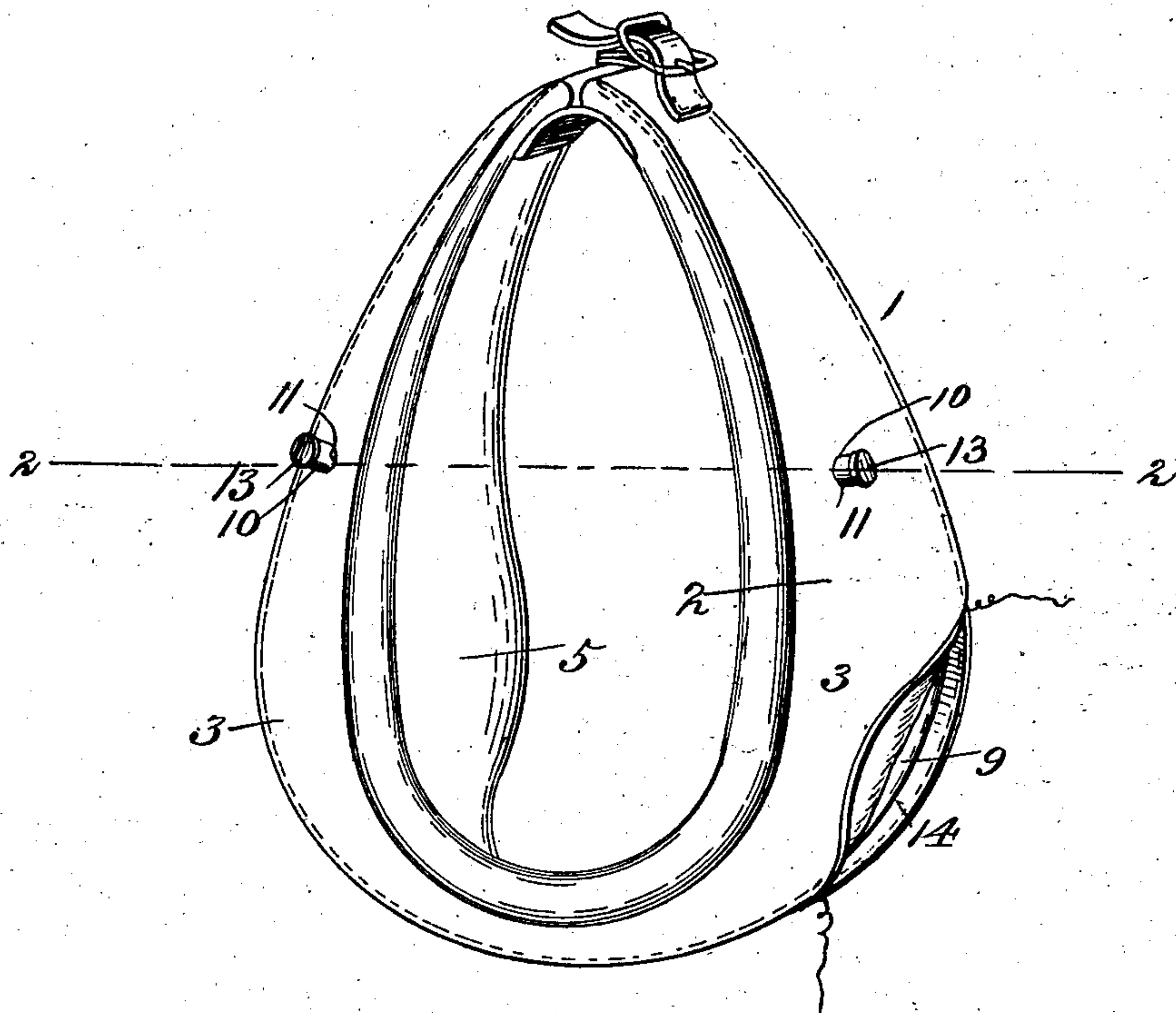
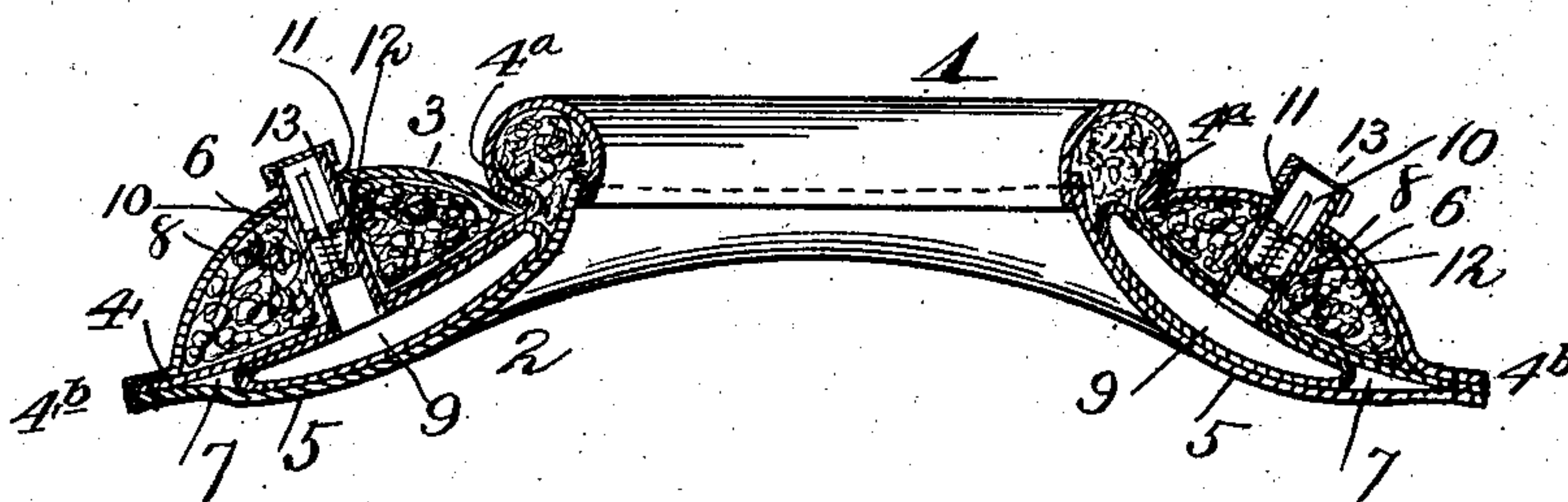


Fig. 2.



Witnesses:
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UNITED STATES PATENT OFFICE.

JOHN V. STONE, OF MOORHEAD, MINNESOTA, ASSIGNOR OF ELEVEN-SIXTEENTHS TO HALVOR RASMUSSEN, HUGO BACHENHEIMER, AND C. A. NYE, OF MOORHEAD, MINNESOTA.

HORSE-COLLAR.

SPECIFICATION forming part of Letters Patent No. 751,358, dated February 2, 1904.

Application filed May 24, 1902. Serial No. 108,817. (No model.)

To all whom it may concern:

Be it known that I, JOHN V. STONE, a citizen of the United States, residing at Moorhead, in the county of Clay and State of Minnesota, have invented new and useful Improvements in Horse-Collars, of which the following is a specification.

My invention relates to improvements in horse-collars; and the object of the same is to construct a collar having a stuffed body and pneumatic pad which will serve to protect the horse's shoulder.

The novel construction employed by me in carrying out my invention is fully described in this specification and claimed, and illustrated in the accompanying drawings, forming a part thereof, in which—

Figure 1 is a perspective of a collar constructed in accordance with my invention and with the side ripped open to expose the pneumatic casing. Fig. 2 is a transverse section of the same on the line 2 2, Fig. 1.

Like characters of reference designate like parts in both views of the drawings.

The numeral 1 designates a collar having a rim A and a body or casing 2, constructed of three portions, designated 3, 4, and 5. The portion 3 forms the front of the collar, on which the hames bear and is connected to rim A. The portion 5 is connected to the rim A and forms the inner side of the collar which comes in contact with the horse's shoulder, while the portion 4 is located intermediate to the portions 3 and 5 and is secured at its edges 4^a and 4^b to the rim A and the portions 3 and 5, respectively. The combination of the three portions 3, 4, and 5 form two compartments 6 and 7. The compartment 6 is filled with stuffing 8 to form the body of the collar of the usual size and shape, and the compartment 7 serves to accommodate a pneumatic casing 9, of elastic material, such as rubber, and constructed to be inflated. A stem 10 is connected to the casing 9 and extends through the stuffing 8, through an aperture 11 in the casing, and projects beyond the surface of the collar. A valve 12 and screw-top 13 are mounted on the stem and

serve to retain the air. The bag or casing 9 is inserted through an aperture 14 before the collar has been sewed up, and in order to remove it the seam must be ripped.

It is evident that my invention may be applied to ordinary collars by adding the extra portion 5 of the casing thereto to form a compartment for the pneumatic casing.

When in use, the bag 9 is inflated in the usual manner with a pump and the screw-top 13 put on. When the bag 9 becomes leaky, it may be replaced by a new one after ripping open the side seam of the collar. Should the bag 9 collapse while on the road, this would not hang the team up and compel the driver to unhitch, since the stuffing 8 forms a body of the usual shape, and a horse could pull as well with both bags 9 collapsed as with an ordinary hard collar.

I do not wish to be limited as to details of construction, as these may be modified in many particulars without departing from the spirit of my invention.

In pointing out more clearly the distinguishing feature of my invention I would state that when a pneumatic bag or casing is employed in a horse-collar the stem or inflating-nipple bearing the usual valve and cap is a particularly vulnerable feature, as it is subjected to much rough abrasion from the accidental contact with the hames and other parts of the harness, as well as with the walls, floor, or hooks of the stable, when the collar is thrown down or hung up. These abrasions are liable to open cracks at the junction of the valve-nipple with the air-bag, which, however minute, quickly allow the bag to lose its air. My construction reduces this difficulty to a minimum in the following way: It will be seen that the valve-nipple from the air-bag is firmly seated both in the outer layer of leather 3 and the inner layer of leather 4 of the stuffed and comparatively rigid hame portion of the horse-collar, and is thereby strongly reinforced against lateral abrasion. Furthermore, this valve-nipple comes behind the hames at any suitable point, and the hames when left on the collar, as they are in many cases, serve by

their projection beyond and in front of the nipple to further protect the same.

Having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A horse-collar having its hame portion constructed of an outer leather portion, an inner leather portion and a stuffing between them forming a comparatively stiff hame portion combined with a pneumatic bag arranged behind this stuffed hame portion and having a valve-nipple with cap, said nipple extending through both the inner and outer leathers of the stuffed hame portion of the collar, substantially as and for the purpose described.

2. A horse-collar having its hame portion constructed of an outer leather portion, an inner leather portion and a stuffing between them forming a comparatively stiff hame portion, combined with a pneumatic bag arranged behind this stuffed hame portion and having a valve-nipple with cap, said nipple extending

through both the inner and outer leathers of the stuffed hame portion of the collar, and an inner leather lining for the pneumatic bag connected at its edges to the other portions of the collar and inclosing the pneumatic bag substantially as and for the purpose described.

3. A horse-collar comprising a rim portion and a hame portion, the hame portion consisting of three separate leather parts forming two chambers, the forward chamber being filled with stuffing and the rear one having an air-bag, and a valve-nipple communicating with the air-bag and extending through two of the separate leather parts substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

JOHN V. STONE.

Witnesses:

F. H. PETERSON,
T. J. BERRIGAN.