

(No Model.)

H. G. STIEBEL, Jr.

COMBINED INFLATABLE HORSE COLLAR AND PAD.

No. 532,834.

Patented Jan. 22, 1895.

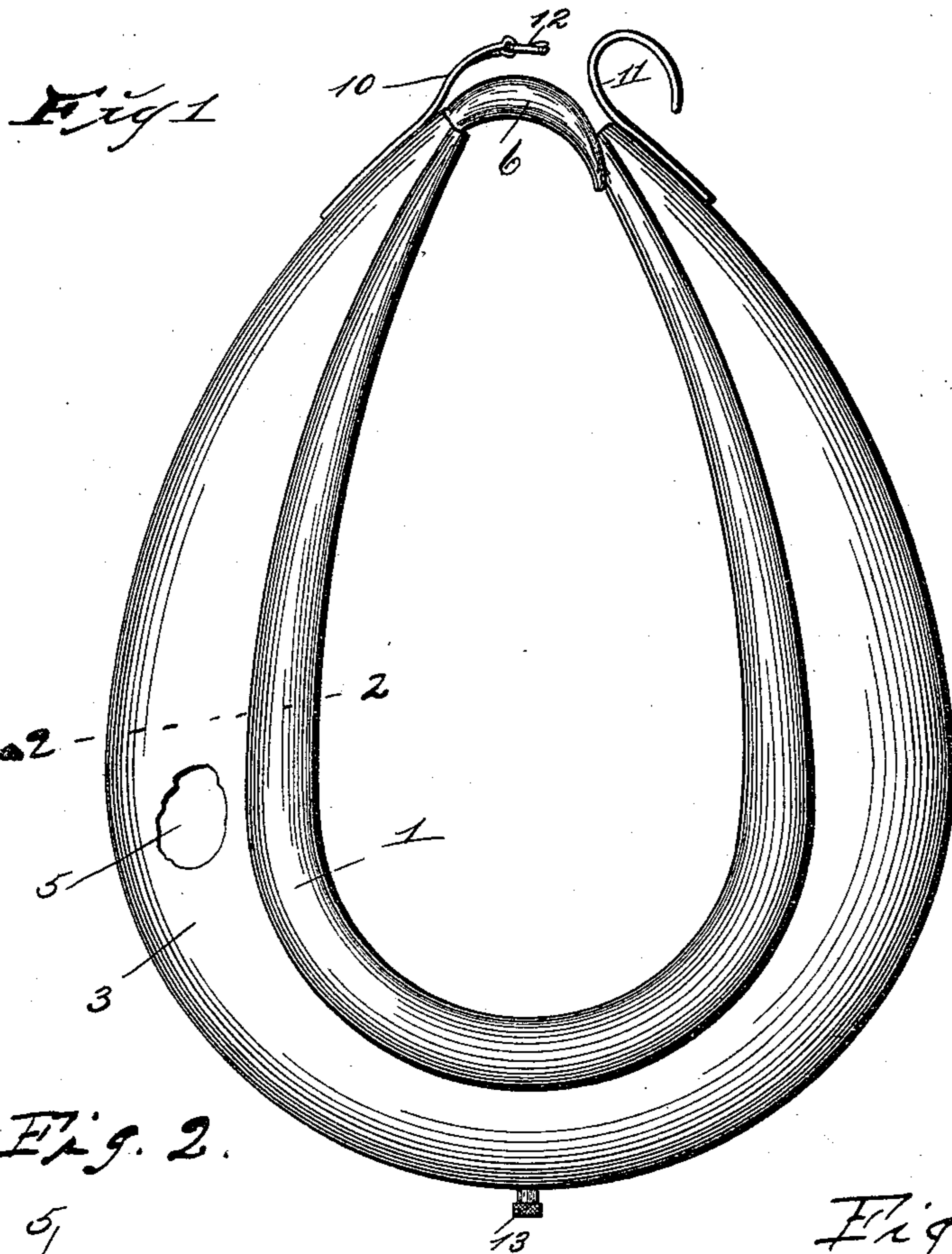


Fig. 2.

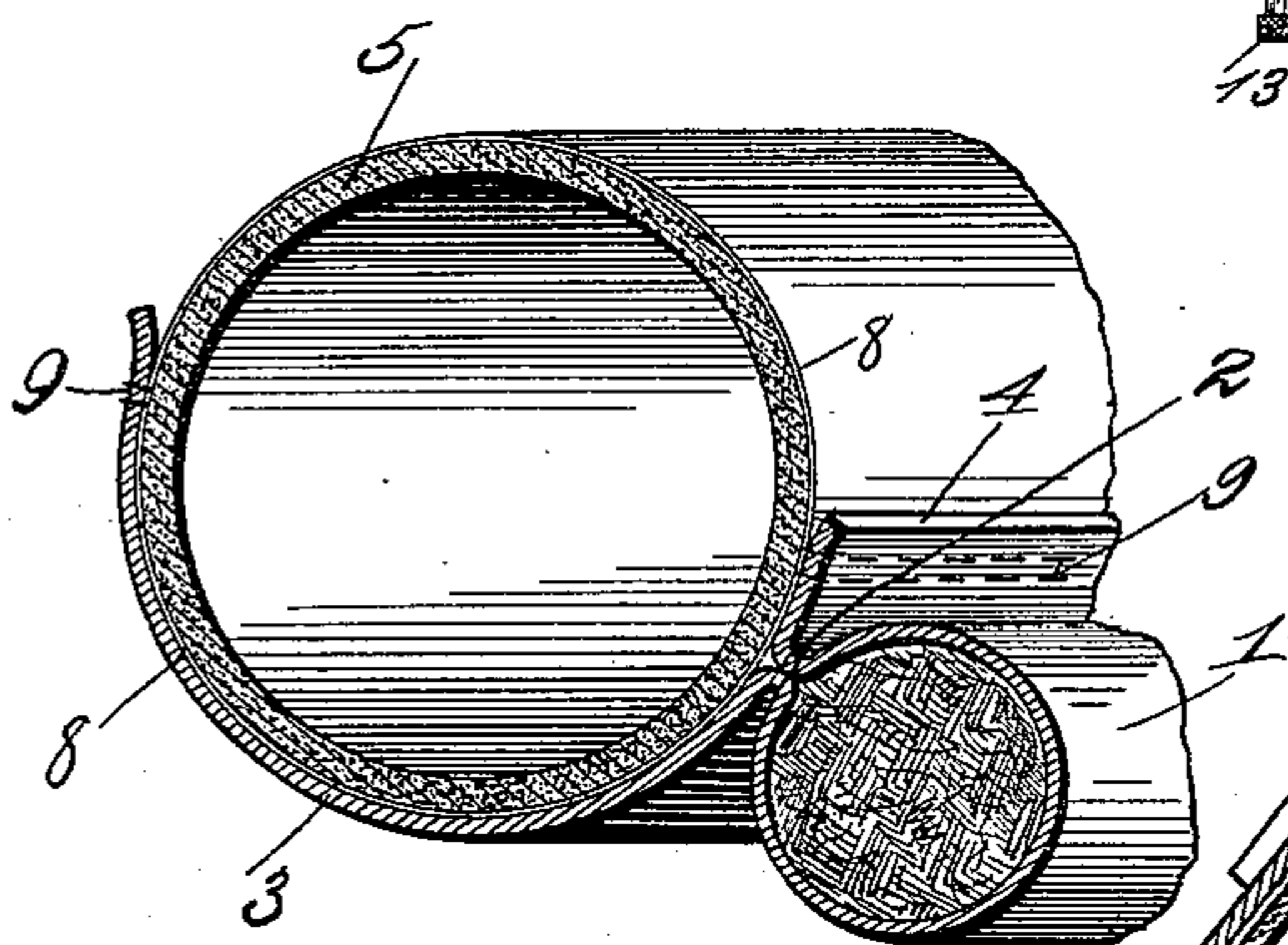
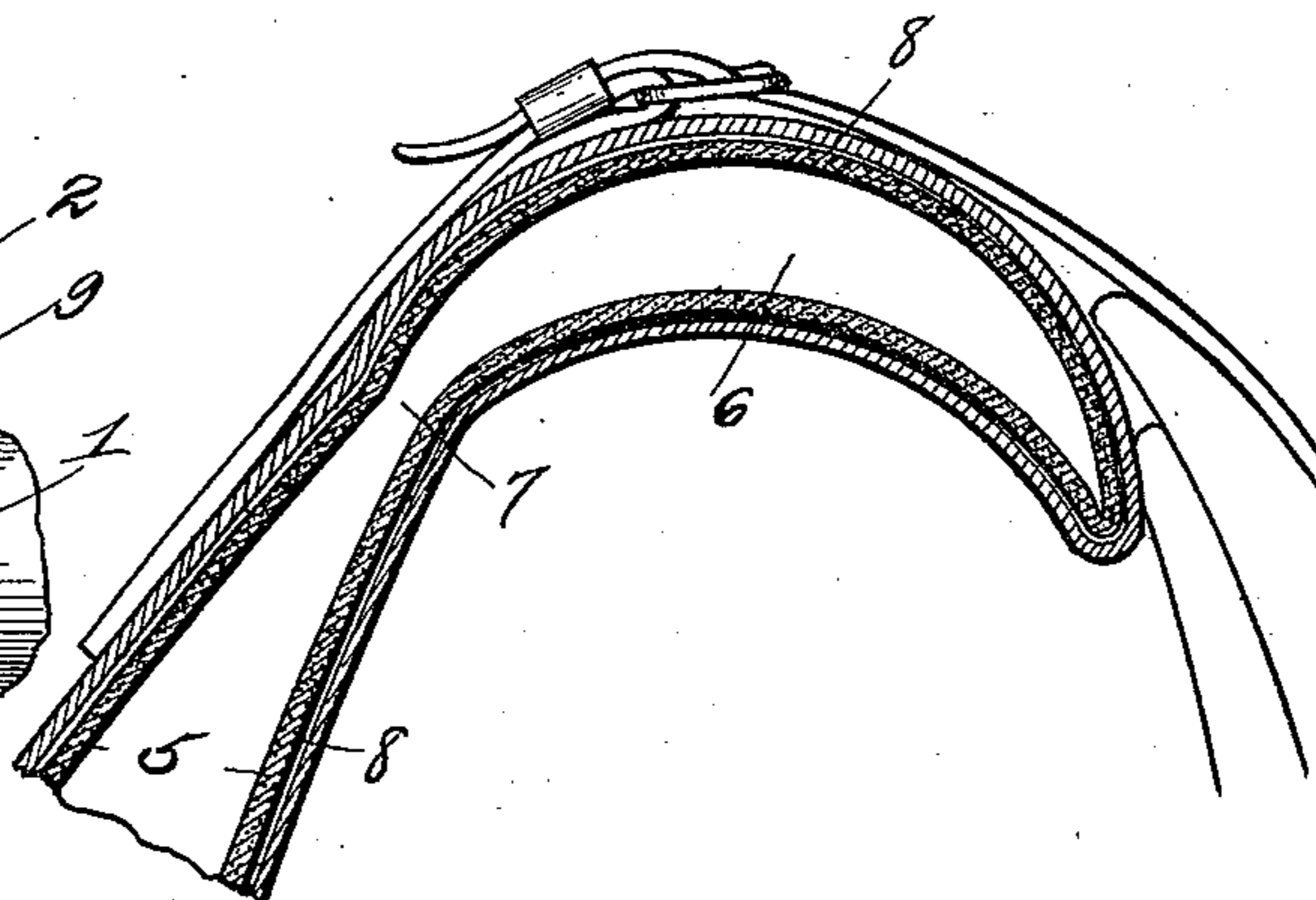


Fig. 3.



Attest

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UNITED STATES PATENT OFFICE.

HENRY G. STIEBEL, JR., OF ST. LOUIS, MISSOURI.

COMBINED INFLATABLE HORSE-COLLAR AND PAD.

SPECIFICATION forming part of Letters Patent No. 532,834, dated January 22, 1895.

Application filed May 28, 1894. Serial No. 512,594. (No model.)

To all whom it may concern:

Be it known that I, HENRY G. STIEBEL, Jr., of the city of St. Louis, State of Missouri, have invented certain new and useful Improvements in a Combined Inflatable Horse-Collar and Pad, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

10 The object of my invention is to construct an improved horse collar, the after-wale of which is composed of rubber, or like material, and made air tight so that it can be inflated with air, gas, or liquids, in order that when
15 such collar is in position upon an animal's neck and shoulders it will equalize and adjust itself so as to bring the force of any pull, or pressure, from the hames upon said collar over the surface of the shoulders, thereby preventing "sore shoulders" on horses.

20 A further object of my invention is to form an inflatable pad integral with the after-wale of a pneumatic collar, in order that said pad and after-wale may be inflated at the same
25 time.

In order that my invention may be more fully understood, I will now proceed to describe it, reference being had to the accompanying drawings, in which—

30 Figure 1 is a front elevation of my improved collar. Fig. 2 is a longitudinal cross-sectional view taken on the indicated line 2—2 of Fig. 1. Fig. 3 is a vertical sectional view of the pad and top, or meeting ends, of the collar.

35 Similar numerals refer to similar parts throughout the several views.

In the construction of the device as shown, the numeral 1 designates the fore-wale of my improved collar, which is of ordinary construction, being composed of the leather casing
40 stuffed with the usual material. The ends of the leather casing of the fore-wale being stitched in the ordinary manner, as shown by the numeral 2, are extended a slight distance, the portion 3 being much longer than the portion 4.

45 The after-wale 5 of the collar is in form similar to the ordinary after-wales of collars, and is constructed of pure vulcanized rubber in the form of a tube, the ends of which are tapered, and on one end the integral neck pad
50 6 is formed. A passage 7 is provided from the interior of the inflatable after-wale 5 to the interior of the neck pad 6. Hence the neck pad 6 and after-wale 5 can be inflated at the same time.

55 The entire surface of the after-wale 5 and neck pad 6 is covered with cloth 8, or analogous material. The after-wale so constructed is positioned adjacent the fore-wale and partially inclosed by the ends 3 and 4 of the leather casing. If desired, the pad 6 may be covered by the upper ends of the leather casing of the fore-wale, as shown in Fig. 3.

60 By stitching the cloth, or like material, to the ends of the leather casing, the after-wale is securely positioned. This stitching is designated by the numeral 9.

To the upper ends of the collar and to the leather casing are secured two straps 10 and 11, the strap 10 carrying a buckle 12, by which
70 the collar is held in position while in use.

The tube 13, containing the valve by which the after-wale and pad are inflated, is preferably located at a lower point on said after-wale. Any of the well known valves commonly used upon inflatable bicycle tires, air cushions, &c., can be used in connection with my collar.

75 The inflatable pad 6 is preferably widened to give more wearing surface.

By forming the after-wale of pure vulcanized rubber, it will not be affected by dampness, &c., or by perspiration from the horse.

80 When the collar is in position upon an animal's neck and the hames in position upon the collar, the force of any pull upon said hames will be equalized and distributed over the entire bearing surface of the collar, thus making an easy wearing, self-adjusting and
90 pressure equalizing collar.

What I claim is—

95 A hollow pneumatic after-wale 5 of a horse-collar and an overlapping hollow pneumatic neck-pad 6 formed integral with a continuous passage 7 extending from the interior of said after-wale to the interior of said pad, whereby both wale and pad may be simultaneously inflated, in combination with a suitable-inflating-valve, and a stiff non-inflatable fore-wale
100

1, the ends of the leather casing of the latter
being stitched at 2 and extended with the por-
tion 3 much longer than the portion 4, said
pneumatic hollow afterwale being partially
5 inclosed or incased by said portions 3 and 4
of said leather casing, and said pneumatic-
neck-pad 6 being covered by the upper ends
of said leather casing of said fore-wale, and a
cloth-covering for both pneumatic afterwale

and its integral neck-pad stitched to the ends 10
of said leather casing at 9, substantially as
herein specified.

In testimony whereof I affix my signature
in presence of two witnesses.

HENRY G. STIEBEL, JR.

Witnesses:

E. E. LONGAN,

JNO. C. HIGDON.