

No. 694,339.

Patented Feb. 25, 1902.

C. S. BOEHM.
PNEUMATIC HORSE COLLAR.

(Application filed Mar. 26, 1901.)

(No Model.)

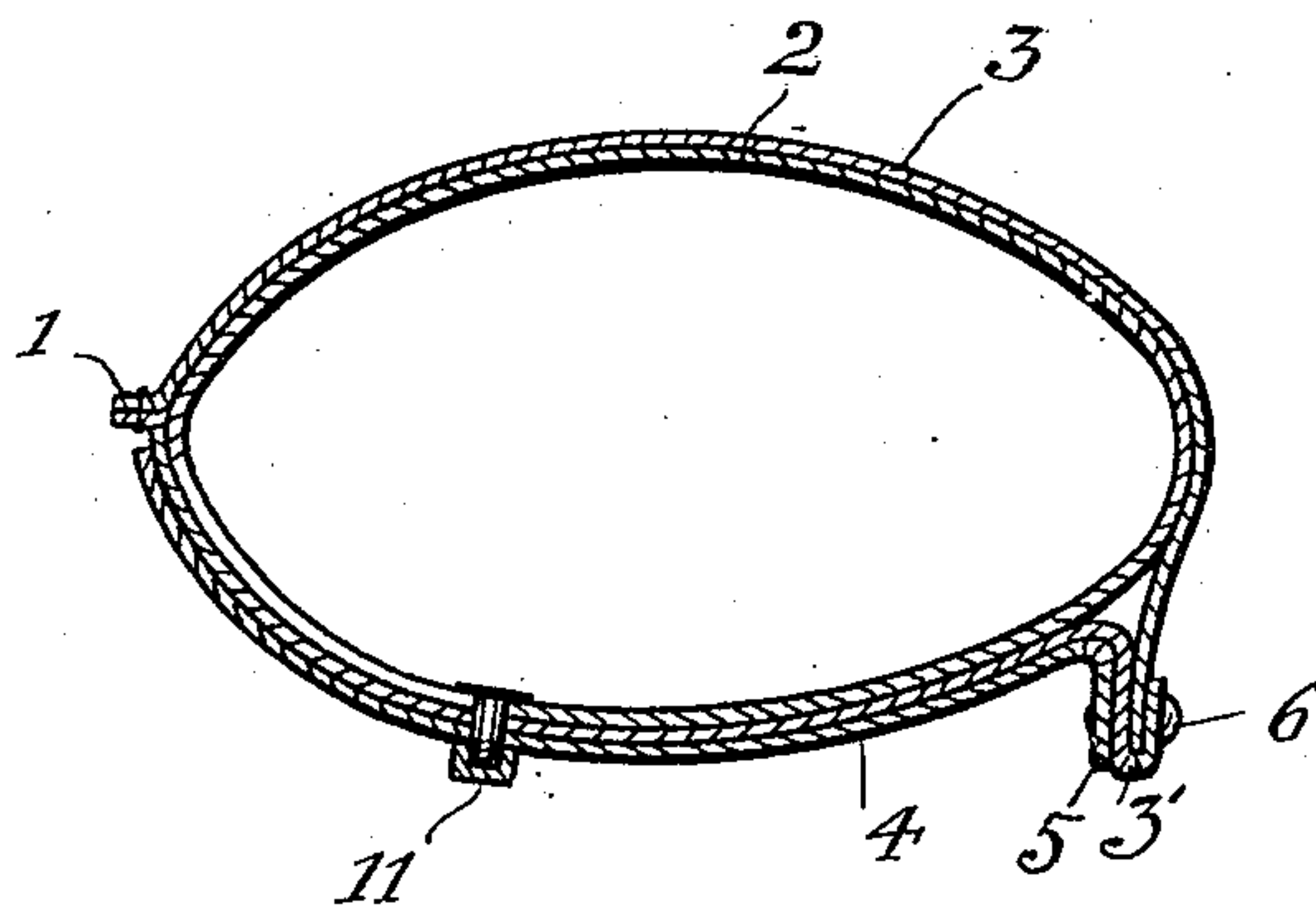
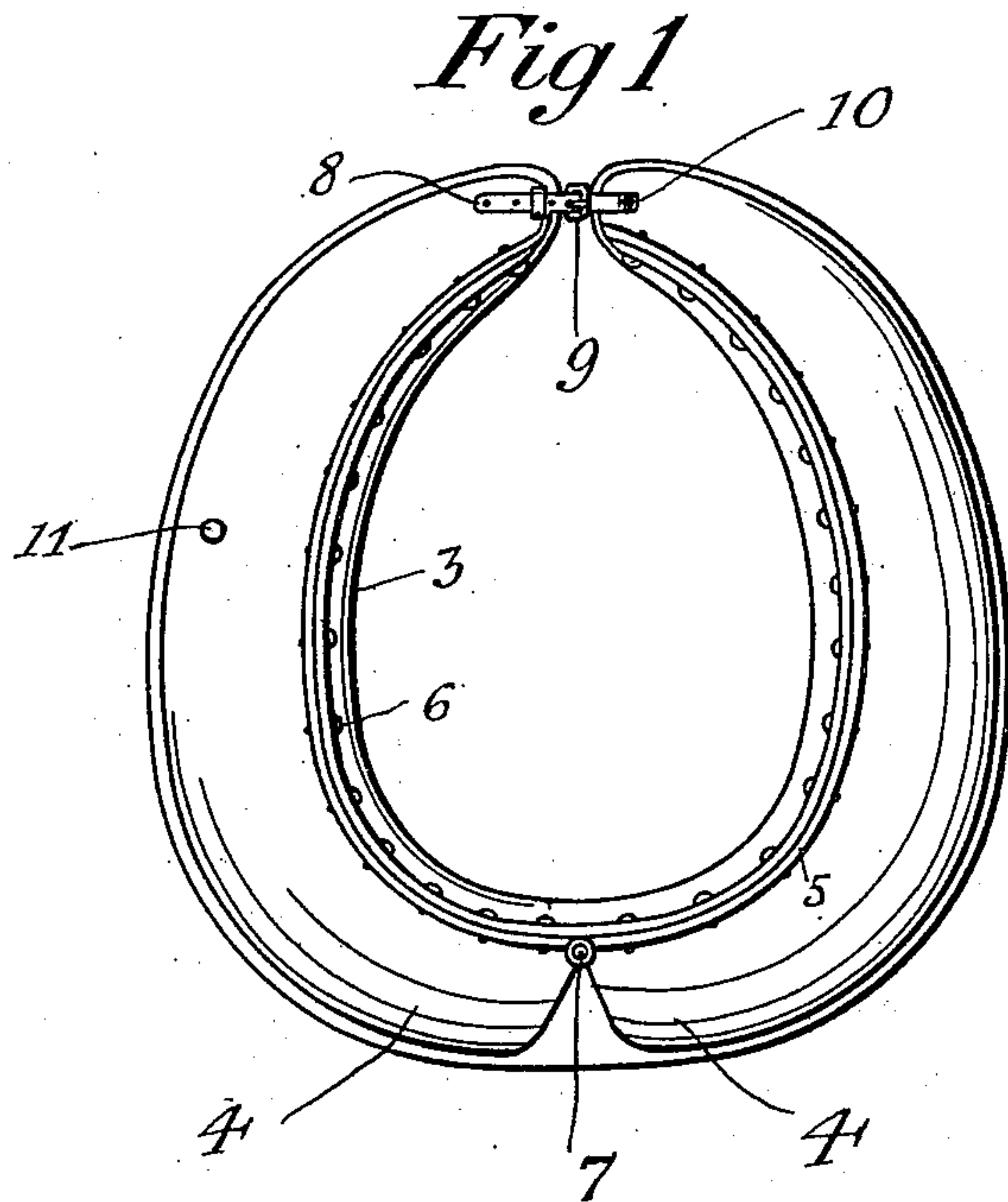


Fig 2

Witnesses
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By Frederick H. Lyon
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UNITED STATES PATENT OFFICE.

CHARLES S. BOEHM, OF HOPKINS, MINNESOTA.

PNEUMATIC HORSE-COLLAR.

SPECIFICATION forming part of Letters Patent No. 694,339, dated February 25, 1902.

Application filed March 26, 1901. Serial No. 53,014. (No model.)

To all whom it may concern:

Be it known that I, CHARLES S. BOEHM, a citizen of the United States of America, residing in the town of Hopkins, in the county of Hennepin and State of Minnesota, have invented certain new and useful Improvements in Pneumatic Horse-Collars, of which the following is a specification.

My invention relates to pneumatic horse-collars, and particularly to the provision of a pneumatic horse-collar which while simple, cheap, and durable in construction is so constructed as to distribute the pressure exerted by the collar evenly on the shoulders of the horse when pulling a load.

To these ends my invention consists in the provision of a pneumatic pad, a suitable outer casing therefor, and a pressure-equalizing plate, forming a collar of the usual form, in which the pressure of the hames and tugs on the collar is distributed evenly over the pneumatic pad, thereby evenly distributing the load on the horse's shoulders and preventing all chafing of the shoulders or neck of the horse and greatly lengthening the life of the pneumatic pad.

More specifically the invention consists in the construction and combination of parts, all as hereinafter described, and particularly pointed out in the claim, and will be more readily understood by reference to the accompanying drawings, forming part of this specification, and in which—

Figure 1 is a front view of a horse-collar embodying my invention. Fig. 2 is a sectional plan view thereof on the line X X of Fig. 1.

As shown in the drawings, 2 represents the pneumatic pad. This is preferably composed of heavy canvas, employing several thicknesses thereof, with sufficient rubber on the inner surface thereof and between the several layers or strips to make an air-tight compartment. This pad is made substantially inextensible, the compression of the air therein giving sufficient cushion for the purposes of the collar. The outer casing may be of leather or any other suitable material. This casing completely covers the pneumatic pad and is preferably composed of two parts 3 3', the part 3 forming the back of the collar and the part 3' extending along the front over the pneumatic pad, forming the fore-wale. Metal plates 4, each made of a single sheet of metal, are placed over the fore-wale of the collar, as

shown. These plates are provided with the upturned lip or flange 5. The ends of the leather casing 3 3' are preferably turned up parallel with this flange or lip and the edge of the part 3' being folded over the edge of the part 3 the two are then secured on the flanges 5 of the respective plates 4 by any suitable means, such as the rivets shown, the rivets passing through suitable holes provided therefor in the plates 4. The respective parts 3 3' of the casing are secured together at 1, as shown, either by sewing, by rivets, or otherwise, as preferred. The plates 4 are hinged together at the bottom, as shown, by a suitable hinge-joint 7. At the top of the collar I provide a strap 8, carrying a buckle 9, into which the strap 10, provided on the opposite end of the collar, is adapted to buckle.

The pneumatic pad is provided with a suitable valve of the ordinary or any preferred construction, through which the pad may be inflated. I have shown the valve as located toward the top of the collar and extending through the plate 4; but it may be located as desired.

The flange or lip 5 prevents the hames from slipping off the collar.

It is thus seen that I provide a pneumatic collar which while simple, cheap, and durable in construction is adapted to bear evenly on all parts of the shoulders of the horse, the pressure on the pneumatic pad being evenly distributed by the plates 4, preventing unequal strain on any part of the collar.

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

In a horse-collar, the combination, with a pneumatic pad, provided with a suitable inflation-valve, of an outer casing composed of parts 3, 3', and plates 4, hinged together at the bottom, and each provided with an upturned flange 5 forming the fore-wale of the collar, said outer casing having its ends fixed on said upturned flanges, substantially as described.

In testimony whereof I have hereunto set my hand, at Minneapolis, Hennepin county, Minnesota, U. S. A., this 6th day of February, A. D. 1901.

CHARLES S. BOEHM.

In presence of—

FREDERICK S. LYON,
JOHN W. BOEHM.