

(No Model.)

W. B. CHAPMAN.
HORSE COLLAR.

No. 419,500.

Patented Jan. 14, 1890.

Fig. 1.

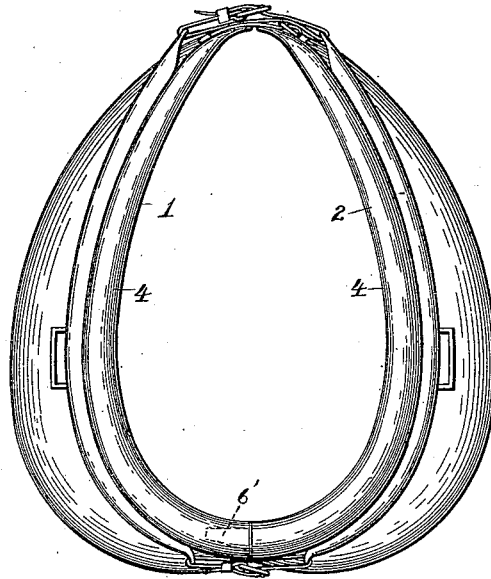


Fig. 2.

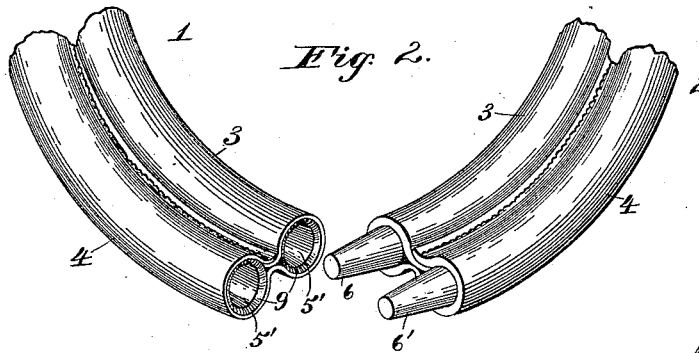
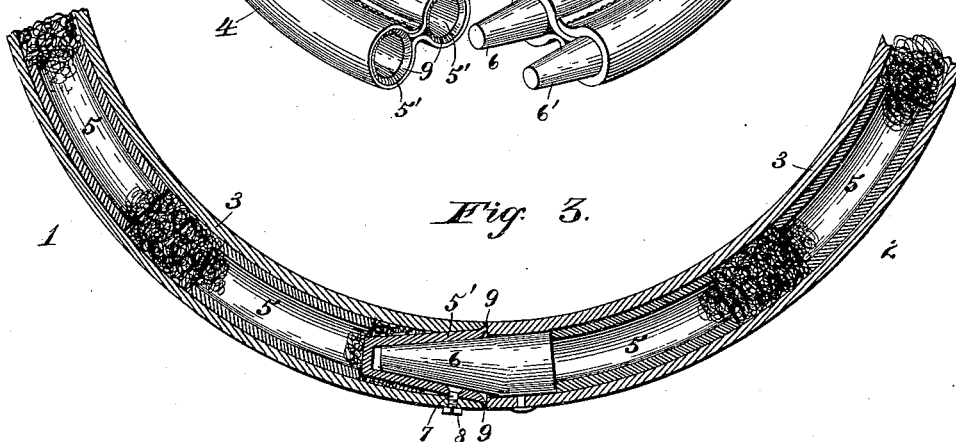


Fig. 3.



WITNESSES:

Rory C. Bowen.
H. Berubad

INVENTOR

Walter B. Chapman
By *Edson P. P.*
Attorneys.

UNITED STATES PATENT OFFICE.

WILDER B. CHAPMAN, OF OMRO, WISCONSIN.

HORSE-COLLAR.

SPECIFICATION forming part of Letters Patent No. 419,500, dated January 14, 1890.

Application filed April 29, 1889. Serial No. 308,718. (No model.)

To all whom it may concern:

Be it known that I, WILDER B. CHAPMAN, a citizen of the United States, and a resident of Omro, in the county of Winnebago and State of Wisconsin, have invented certain new and useful Improvements in Horse-Collars; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in horse-collars; and it consists of the peculiar construction and arrangement of parts, as will be hereinafter fully described, and particularly pointed out in the claim.

Heretofore a horse-collar has been provided at the extremities of its divided or separated portions with fixed caps which are secured exteriorly thereto, one cap having sockets to receive protuberances or tenons on the other cap, a fastening device being also provided for confining or locking the free ends of said divided collar, which consists of a loop on the cap having the sockets, and a spring-tongue on the other cap which has the protuberances or tenons.

I aim to entirely dispense with the fastening devices and to provide a horse-collar which is materially braced and strengthened at the lines where the ends of said collar bear or press against the animal's breast, and which are held against lateral displacement by the means employed for strengthening the collar. The ends of the collar are confined in place against endwise displacement and separation by the hames, which are worn over the collar and fastened together by a suitable locking device, and the collar retains its rounded shape in cross-section at the lines where it presses against the animal's shoulders instead of flattening out, as in the ordinary collars in use.

To enable others to understand my invention, I will now proceed to describe the same in connection with the accompanying drawings, in which—

Figure 1 is a view of a horse-collar constructed in accordance with my invention and having a pair of hames applied thereto. Fig. 2 is a perspective view of the lower meeting ends of the collar. Fig. 3 is a vertical

sectional view taken through the lower ends of the two members of the collar.

Like numerals denote corresponding parts in all the figures of the drawings, referring to which—

1 2 designate the two members or parts of a horse-collar, which in general outline resembles the ordinary collar. Each member or part of the collar is made of a piece of leather which is folded or doubled upon itself to provide the two longitudinal hollow parts 3 4, which are filled and stuffed in the manner which I will now proceed to describe.

The part 3 of each member of the collar is adapted to bear against the animal's shoulder and neck when the collar is properly adjusted, and in order to strengthen this part 3 to cause it to retain its rounded or curved shape in cross-section and at the same time be sufficiently yielding or pliable I have provided a series of short sleeves or tubes 5, which are spaced at suitable intervals—say six (6) inches apart—along the length of the part 3 of each member on the inside of the same, so as to be entirely concealed from view. These short sleeves fit tightly in the part 3 of each member, so as to brace and strengthen the same and keep it from flattening out, as is the case with the ordinary collar, and the parts 3 and 4 of each member are also stuffed or filled in the same manner as the ordinary collar.

As heretofore stated, I dispense with a fastening device for preventing the endwise displacement of the members of the collar and utilize the hames for holding said members together; but in order to prevent edgewise or lateral play of the members of the collar at their ends I have provided a socket-joint device for connecting said ends together, which also serves to hold the parts 3 4 of the members in shape.

The socket-joint consists of two sockets 5 5', which are secured in the ends of the parts 3 4 of the member 1 of the collar, and of tenons 6 6', which are likewise secured to the ends of the parts 3 4 of the other member 2 of the collar. The open-ended sockets 5 5' are received and housed within the open ends of the parts 3 4 of the member 1, and they are each secured in place by a bolt 7, which passes

through the socket and rim of the collar, and has a nut 8, which firmly binds the parts together, each socket having an annular flaring rim 9 at its open end, which fits over and
5 protects the edge of the rim of the collar.

The tenons 6 6' of the member 2 project or extend a suitable distance beyond the end of said member 2, and they are firmly and securely connected by bolts or rivets thereto.
10 The tenons are preferably tapered slightly or conical in form, and the sockets are likewise shaped so that the tenons fit snugly therein when the two parts or members of the collar are forced together, whereby edgewise or lateral displacement of the members of the collar is prevented, while separation of the ends
15 of the collar is avoided by the hames, which are fitted closely over the collar and locked in place by the fastening device with which
20 they are usually provided.

The upper ends of the members of the collar are connected together in the ordinary manner; or, if desired, they may be connected by a socket-joint in the same manner as the
25 lower ends, which has already been described, but which connection at the upper ends of the members I have not deemed it necessary to illustrate, as it will be perfectly obvious to any one skilled in the art.

30 The operation of my invention will be readily apparent from the foregoing description, taken in connection with the drawings. The collar and hames are adjusted on the animal in the ordinary manner and the hames fast-

ened together by the ordinary fastening, care 35 being taken to have the tenons of one member of the collar properly fitted in the sockets in the other member thereof. Lateral or edgewise play of the free ends of the members is prevented by the tenons fitting in said
40 sockets and the hames hold said members in position so that their ends are prevented from becoming separated.

Slight changes in the form and proportion of parts may be made without departing from 45 the spirit or sacrificing the advantages of my invention.

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

50 A harness-collar consisting of two members, each having its part 3 provided with a series of sleeves or tubes which are arranged interiorly thereof and spaced at suitable intervals, and the two parts 3 4 of each member 55 being stuffed in the ordinary manner, the open sockets secured in the lower open end of one member, and the tenons secured to the corresponding end of the other, the whole combined and arranged for service substantially as herein shown and described. 60

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

WILDER B. CHAPMAN.

Witnesses:

OLIVER BARLOW,
CHAS. CHASE.