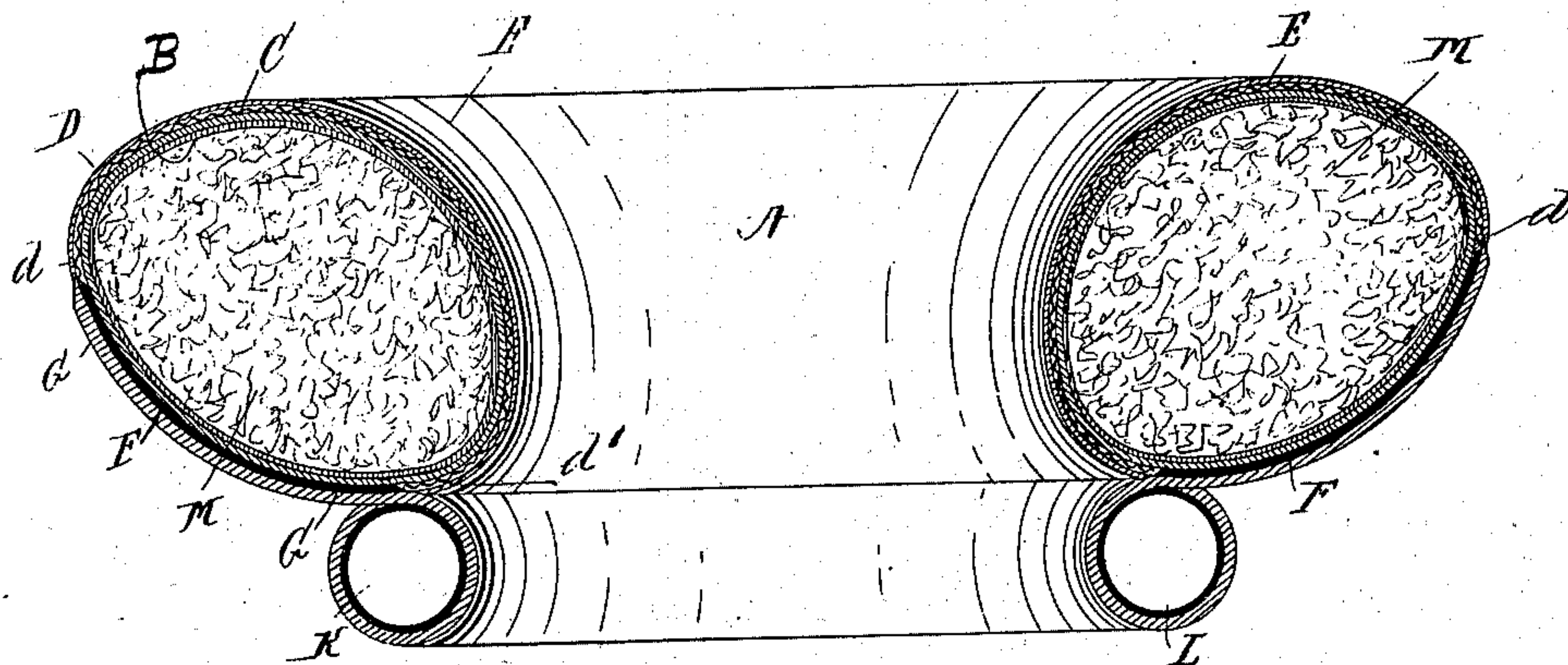


(No Model.)

H. CLARKE.
HORSE COLLAR.

No. 559,072.

Patented Apr. 28, 1896.



WITNESSES:

John Buckler,
C. Gerst.

INVENTOR

Harry Clarke
BY
Edgar Tate & Co.

ATTORNEYS.

UNITED STATES PATENT OFFICE.

HARRY CLARKE, OF NEW YORK, N. Y., ASSIGNOR OF ONE-HALF TO EDWARD A. HALL, OF SAME PLACE.

HORSE-COLLAR.

SPECIFICATION forming part of Letters Patent No. 559,072, dated April 28, 1896.

Application filed September 23, 1895. Serial No. 563,325. (No model.)

To all whom it may concern:

Be it known that I, HARRY CLARKE, a citizen of the United States, and a resident of New York, in the county of New York, State of New York, have invented certain new and useful Improvements in Collars for Horses, of which the following is a specification, reference being had to the accompanying drawing, forming a part thereof, in which similar letters of reference indicate corresponding parts.

This invention relates to collars for horses; and the object thereof is to provide an improved device of this class, which is so constructed and arranged as to retain its proper form, and also to prevent galling, chafing, or otherwise injuring the animal; and with this and other objects in view the invention consists in the construction, combination, and arrangement of parts hereinafter described and claimed.

The invention is fully disclosed in the following specification, of which the accompanying drawing forms a part, and which represents a transverse section of my improved collar.

In the accompanying drawing, forming a part of this application, A represents the main body of the collar, or that portion thereof which forms a bearing for the harness, and which is adapted to surround the neck of the animal and to rest upon its shoulders. This part of the collar is of the usual form in cross-section being almost elliptical with the outer or bearing surface thereof slightly compressed, and the inner portion thereof is composed of a rubber tube B, which is inclosed by a strong canvas tube or casing C, and outside of the canvas casing or covering, and on that side thereof which comes in contact with the shoulders of the animal or bears thereon, is a covering D of fine wire mesh or netting, which extends from *d* to *d'*, and outside of the wire mesh or netting is secured a thin casing or covering E, of leather, which entirely surrounds and incloses the wire mesh or netting, and over the canvas casing or covering C, and extending from *d* to *d'*, is a spring-metal covering F, preferably of steel, (shown in the drawing in heavy black lines,) and forming a continuation of the thin leather covering E, by

which the wire mesh or netting is inclosed, is a heavy leather covering G, which extends from the point *d*, over the steel F, and is formed into a tubular attachment K, with which collars of this class are provided, said tubular attachment K being adapted to hold the hames of the harness in place and provided with a metal lining L, by which it is retained in form, and the general form of this tubular attachment K is, as will be understood, the same as that of the body of the collar.

The body A of the collar is filled in with asbestos fiber, as shown at M, and afterward it is inflated with air by a process similar to that employed in making pneumatic collars, the collar being provided with an air-nozzle with which an air-pump is connected. These features of construction, however, form no part of this invention and are not shown.

The advantages of my improvement will be apparent to all those familiar with this class of devices and the operation thereof. The canvas casing or covering C for the rubber inner tube serves to retain the collar in proper form, as does also the wire-mesh covering or casing applied thereto, and this operation is aided by the packing of asbestos within the collar. This construction also serves to prevent the overheating of the collar and the consequent galling and chafing of the animal to which it is applied.

The annular metal plate or covering F, which is preferably of steel, and the heavy leather covering which is placed thereover also aid in retaining the collar in its proper form and provide the best possible bearing-surface for the hames, or that portion of the harness which in practice is connected with the collar.

My invention is not limited to the exact form, construction, and arrangement of parts shown and described; and I therefore reserve the right to make all such alterations therein and modifications thereof as fairly come within the scope of the invention.

Having fully described my invention, I claim and desire to secure by Letters Patent—

1. A collar for horses, comprising the usual body portion A, which is composed of an inner

tube of rubber, a tubular covering or casing of canvas, said canvas covering or casing being provided on the inner side, or bearing-surface with a covering of wire mesh, over
5 which is placed a covering or casing of thin leather, and said canvas tube or covering being also provided on the outer side with a steel or other metal plate or covering over which is placed a covering of leather, substantially as shown and described.
10

2. A collar for horses, comprising the usual body portion A, which is composed of an inner tube of rubber, a tubular covering or casing of canvas, said canvas covering or casing being provided on the inner side, or bearing-surface with a covering of wire mesh, over
15

which is placed a covering or casing of thin leather; and said canvas tube or covering being also provided on the outer side with a steel or other metal plate or covering over which is placed a covering of leather, which is also formed into a tubular attachment as K, which is provided with a metal tube or lining, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 21st day of September, 1895.

HARRY CLARKE.

Witnesses:

C. GERST,

M. A. KNOWLES.