

*E. Sullivan*

*Horse Collar,*

*Nº 79024.*

*Patented June 16, 1868.*



*Witnesses:*  
*W. H. Macy.*  
*Jesse Zepp.*

*Inventor:*  
*Eugene Sullivan*  
*By his attorney*  
*J. C. Robbing*

## United States Patent Office.

EUGENE SULLIVAN, OF NEW YORK, N. Y., ASSIGNOR TO THE AMERICAN HORSE-COLLAR COMPANY, OF BOSTON, MASSACHUSETTS.

*Letters Patent No. 79,024, dated June 16, 1868.*

### IMPROVED FABRIC FOR COVERING HORSE-COLLARS.

*The Schedule referred to in these Letters Patent and making part of the same.*

#### TO ALL WHOM IT MAY CONCERN:

Be it known that I, EUGENE SULLIVAN, of the city, county, and State of New York, have invented a new manufacture in the shape of an Improved Chemical Water-Proof Covering for the Bearing-Surfaces of Horse-Collars; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawing of the section of a horse-collar which forms a portion of this specification.

My said new manufacture is produced by the combination of elastic fibrous fabric with a layer or coating of vulcanized caoutchouc, or gutta percha, or any other composition containing a sufficient proportion of said gums to produce a smooth, elastic, and durable water-proof surface, substantially like that produced by the said gums when combined with fibrous fabrics in the usual manner.

The fibrous portion of said manufacture must be composed of wool, or some other elastic material, and must be of sufficient thickness and strength to enable the same to be smoothly and securely combined with the leather portion of a horse-collar, substantially as shown in the accompanying drawing.

The said new covering-material must also possess sufficient strength to endure the strain that will be brought upon the same during the operation of stuffing the collar, and afterwards endure all the wear and tear naturally incident to the practical use of said collar.

In the accompanying drawing, *a* is the elastic fibrous portion of my improved covering for the bearing-surfaces of horse-collars, and *b* is the elastic water-proof portion of the same.

In the use of my said new manufacture, (in the shape of an elastic covering for the bearing-surfaces of horse-collars,) either side thereof may be placed outermost, at the option of the user.

What I claim as my invention, and desire to secure by Letters Patent, as new manufacture, is—

The within-described improved elastic water-proof covering for the bearing-surfaces of horse-collars.

The foregoing specification of my new and improved water-proof covering for the bearing-surfaces of horse-collars, signed this 27th day of May, 1868.

EUGENE SULLIVAN.

Witnesses:

FRED'K H. GIBBENS,  
JOHN B. FOLGER.