

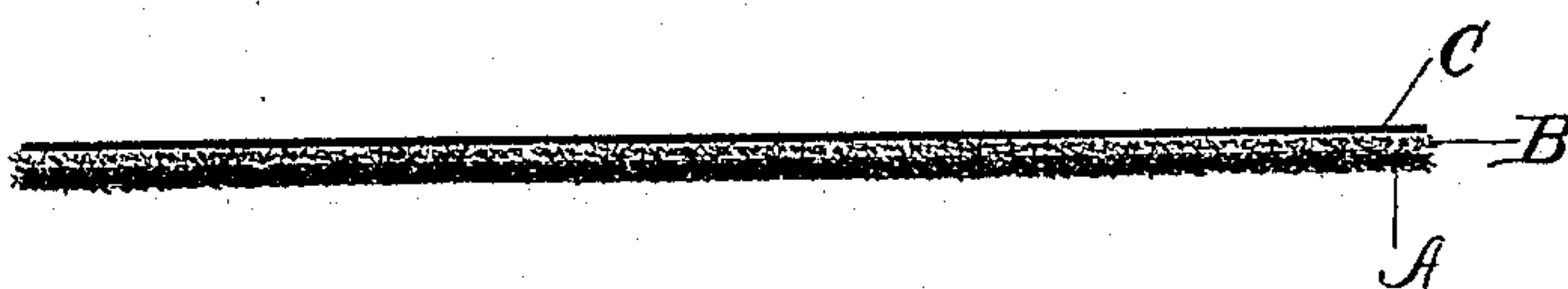
(No Model.)

E. W. HARRAL.

CURTAIN OR COVERING FOR CARRIAGES.

No. 280,309.

Patented June 26, 1883.



Witnesses

J. S. Williamson
W. W. Mortimer

Inventor

Edward W. Harral,
by Wooster Smith,

Atty's

UNITED STATES PATENT OFFICE.

EDWARD W. HARRAL, OF FAIRFIELD, CONNECTICUT.

CURTAIN OR COVERING FOR CARRIAGES.

SPECIFICATION forming part of Letters Patent No. 280,309, dated June 26, 1883.

Application filed June 4, 1883. (No model.)

To all whom it may concern:

Be it known that I, EDWARD W. HARRAL, a citizen of the United States, residing at Fairfield, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Curtains and Coverings for Carriages; 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 certain novel and useful improvements in the manufacture of curtains and coverings for carriages, and has for its object to provide a device of this description which shall be perfectly water-proof, while at the same time its manufacture shall be simple and economic and the action of the elements not affect the same; and with these ends in view my invention consists in a covering or curtain having an inner facing of wool, on a cotton back with a coating of rubber on the latter, as will be fully hereinafter explained in detail, and then specifically designated by the claim.

In order that those skilled in the art to which my invention appertains may more fully understand its construction and adaptation, I will proceed to describe the same in detail, referring by letter to the accompanying drawing, forming a part of this specification, which shows the arrangement of the several component parts of my improvement in a sectional view.

A is the facing of wool; B, the cotton back, and C the rubber coating, which is applied on the cotton back in thin sheets or in any suitable manner.

One of the most important features in the

construction of my improved curtain or covering is that when the rubber is applied to the cotton back it adapts itself to the minute irregularities of said back, so that in rolling up or folding the curtain there is no danger of wrinkling or cracking, because of the uniform application and adaptation of the rubber. This construction also renders the curtain free from the bulkiness and stiffness common to most curtains and coverings now in use.

Prior to my invention leather has been used, and various materials have been combined by stitching, pasting, &c., to accomplish the same purpose; but the action of the sun and rain on all of these is very injurious, as they invariably crack or rot. Also, the curtains now in use, especially those composed of leather or having a leather back, become wrinkled or creased by continued rolling or folding up, owing to their slight degree of flexibility; but I am enabled to produce a curtain exceedingly durable and flexible, while at the same time the great facility with which I can manufacture the same renders it very economical.

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

As a new article of manufacture, a curtain or covering for carriages and the like, having a wool facing on a cotton back and a coating of rubber over the latter, substantially as set forth and described.

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

EDWARD W. HARRAL.

Witnesses:

F. W. SMITH, Jr.,
A. M. WOOSTER.