

A. D. WESTBROOK.
Rubber-Belting.

No. 210,379.

Patented Nov. 26, 1878.

Fig. 1.

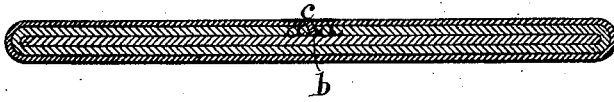
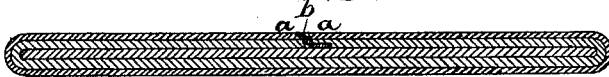


Fig. 2.



Fig. 3.



Witnesses.
Chas. Wählers.
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Inventor.
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by his attys.
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UNITED STATES PATENT OFFICE.

ABRAHAM D. WESTBROOK, OF LAMBERTVILLE, NEW JERSEY.

IMPROVEMENT IN RUBBER BELTINGS.

Specification forming part of Letters Patent No. **210,379**, dated November 26, 1878; application filed May 29, 1878.

To all whom it may concern:

Be it known that I, ABRAHAM D. WESTBROOK, of Lambertville, Hunterdon county, and State of New Jersey, have invented a new and useful Improvement in Rubber Belts, which invention is fully set forth in the following specification, reference being had to the accompanying drawing, in which—

Figure 1 represents a transverse section of my belt when the same is finished. Fig. 2 is a similar section of the same before the belt is rolled and cured. Fig. 3 is a similar section, showing a strip of rubber overlapping and underlapping the edges of the fabric or covering.

Similar letters indicate corresponding parts.

This invention consists, first, in a rubber belt composed of one or more layers of suitable textile fabric, folded, and having a strip of rubber interposed between the abutting raw edges of the folded fabric or covering, whereby said edges are firmly united, and all liability to splitting at their junction is obviated; second, in a belt composed of one or more layers of textile fabric, folded, and having a strip of rubber interposed between the abutting raw edges of the folded fabric or covering, underlapping one of said edges and overlapping the other, whereby said edges are cemented together, and all liability to separate at their junction obviated, substantially as specified.

In following the ordinary method of manufacturing rubber belts, a piece of duck is saturated with rubber, then cut to the desired width, and folded so as to produce a belt of the width and thickness required, the edges of the duck being made to meet at or near the middle of the width of the belt. The edges of the duck in being cut are raw; and in order to cover the joint formed between these raw edges it is common to place thereon a thin strip of rubber, which, when the belt is finally rolled and cured, does not perceptibly increase the thickness of the belt over the joint, and which does not cause the raw edges of the duck to adhere to each other. The joints of such belts are liable to open in a short time, and the belts become worn and useless. This defect I have overcome by placing between

the raw edges *a a*, Fig. 2, of the duck, after the same has been cut and folded, a binding-strip, *b*. This binding-strip consists of a very thin piece of rubber, and I introduce it, by preference, in such a manner that one of its edges extends beneath one of the layers of the duck, while its other edge rises up, and it is turned out over the edge of the other layer. Over this binding-strip I place the ordinary covering-strip *c*, and then I roll, cure, and finish in the ordinary manner. By the binding-strip *b* the raw edges of the duck are firmly cemented together, and, after the belt has been cured and finished, the joint formed between such raw edges is not liable to open, so that my belts last a much longer time than india-rubber belts made in the ordinary manner, without the binding-strip *b* between the raw edges of the folded duck.

Instead of using a flat binding-strip, as shown in the drawing, a round cord may be used, which is forced between the edges *a a*; and after the belt has been rolled, and as soon as it is heated, the binding-strip melts, so as to saturate the raw edges of the duck and to cause them to adhere firmly to each other after the curing process has been completed.

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

1. In a belt composed of one or more layers of suitable textile fabric folded, a strip of rubber interposed between the abutting edges of the folded fabric or covering, substantially as and for the purpose described.

2. In a belt composed of one or more layers of suitable textile fabric folded, a strip of rubber interposed between the abutting edges of the folded fabric or covering, and underlapping and overlapping one of said edges, and of a strip of rubber for covering the joint between such edges, substantially as and for the purpose set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 24th day of May, 1878.

A. D. WESTBROOK.

Witnesses:

W. HAUFF,
J. HERMANN WAHLERS.