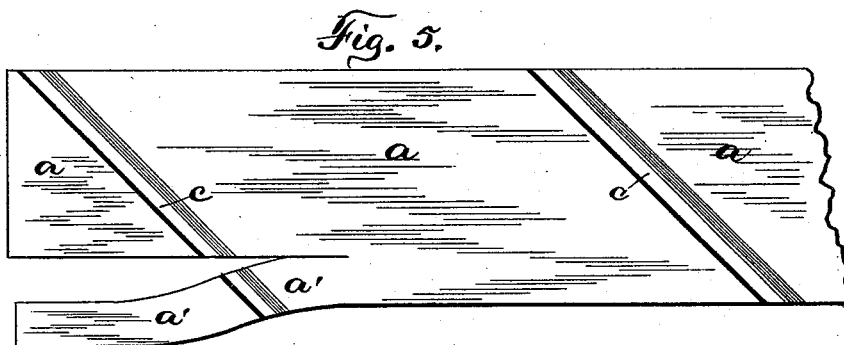
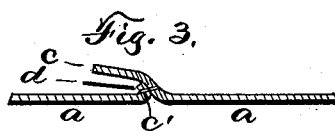
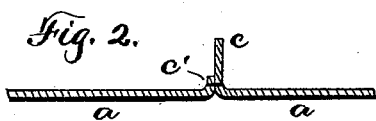
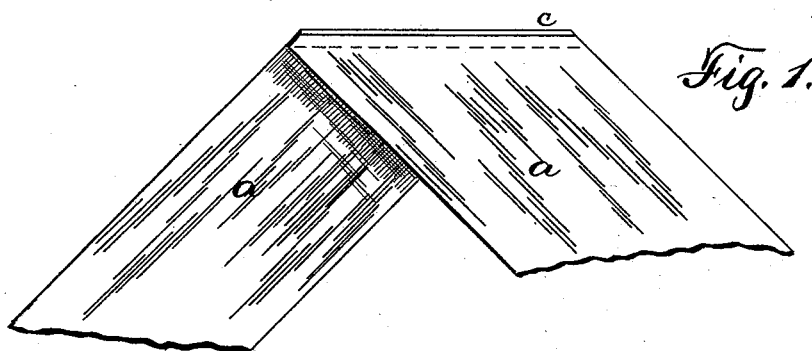


(No Model.)

M. M. BEEMAN.
BINDING.

No. 490,819.

Patented Jan. 31, 1893.



WITNESSES:

Geo M. Blowers
H. A. Carhart

INVENTOR.

Marcus M. Beeman

BY

Smith & Demison
his ATTORNEY.

UNITED STATES PATENT OFFICE.

MARCUS M. BEEMAN, OF SYRACUSE, NEW YORK.

BINDING.

SPECIFICATION forming part of Letters Patent No. 490,819, dated January 31, 1893.

Application filed June 29, 1891. Serial No. 397,788. (No model.)

To all whom it may concern:

Be it known that I, MARCUS M. BEEMAN, of Syracuse, in the county of Onondaga, in the State of New York, have invented new and
5 useful Improvements in Bindings, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

My invention relates to bindings made
10 from goods cut on a bias; and my invention consists in a binding consisting of strips of cloth stitched together at their meeting ends, and having one of the butt ends, exterior to the stitching, made shorter than the other
15 butt, and the long butt of the one strip secured over the short butt of the other strip and onto the back of the other strip.

It is constructed as follows, reference being had to the accompanying drawings, in which
20 I illustrate the mode of making it from the goods in the piece, and in which,

Figure 1, is a top plan view of two rhomboids of the material, disposed one upon the other, face to face, ready for the stitching together of the meeting edges (or the ends of the strips) when the rhomboids are cut into strips before being fastened together. Fig. 2, is a longitudinal section of part of two rhomboids (or two strips) after being stitched together and turned so that their faces are in the same horizontal plane; and showing the butts or ends exterior to the stitching, as left by the stitching and not folded or flattened down, one butt being shorter than the other.
35 Fig. 3, is a like view of the same showing the long butt partially folded down, or lapped over the short butt onto the back of the other rhomboid or strip, and a strip of cement between it and said back. Fig. 4, is a like view
40 of the same, showing the long butt folded down and secured over the short butt and onto the back of the adjacent rhomboid or strip. Fig. 5, is a top plan of the back after two (or more) rhomboids are stitched together
45 and the long butts cemented down, and straightened out as in Fig. 2, and showing a strip of binding partially cut off on a line parallel with the sides of the rhomboids so secured together.

50 As shown in Figs. 1 and 5, I first cut the goods on an angle of forty-five degrees to the

selvages, at such distances apart as to create equal sided rhomboids—*a*—and thereby cutting the warp and weft threads upon that line of bias. I do not limit myself, however,
55 to any precise angle of bias cut. I can also cut the material on a bias, and then cut the bias cut pieces into strips—*a'*—of such width as may be desired before securing the ends together.

As the joint is made between two rhomboids, and two strips, in the same manner, I will only describe the making thereof between two rhomboids. I place two of them, one upon the other, face to face, and stitch their meeting ends together creating butts, exterior to the stitching, of equal or substantially equal length, in their projection beyond the stitching, and trim one of the butts off short, or close to the stitching, thus creating a long
60 butt—*c*— and a short one—*c'*—. I then straighten out the rhomboids, as shown in Fig. 2, and fold the long butt over the short one, as shown in Fig. 3, and insert a piece of rubber, or other cement—*d*— and then secure
65 it to the back of the other rhomboid as in Fig. 4, after which I cut the rhomboids, by parallel lines, into strips as shown in Fig. 5. It will thus be seen that the joint is made by stitching and by securing the long butt of one
70 strip, across and over the stitching, onto the back of the other strip, so that the stitching in the joint is re-inforced by the over-lapping goods.

What I claim as my invention and desire
85 to secure by Letters Patent is,

A binding consisting of strips of material, having their meeting ends stitched together and having one of the butts reduced in its projection, exterior to the stitching, and hav-
90 ing the long butt of one strip folded over the short butt of the adjoining strip, and secured by cement over said butt and onto the back of the adjoining strip, substantially, as and for the purposes set forth.

In witness whereof I have hereunto set my
95 hand this 1st day of June, 1891.

MARCUS M. BEEMAN.

In presence of—

HOWARD P. DENISON,
C. W. SMITH.