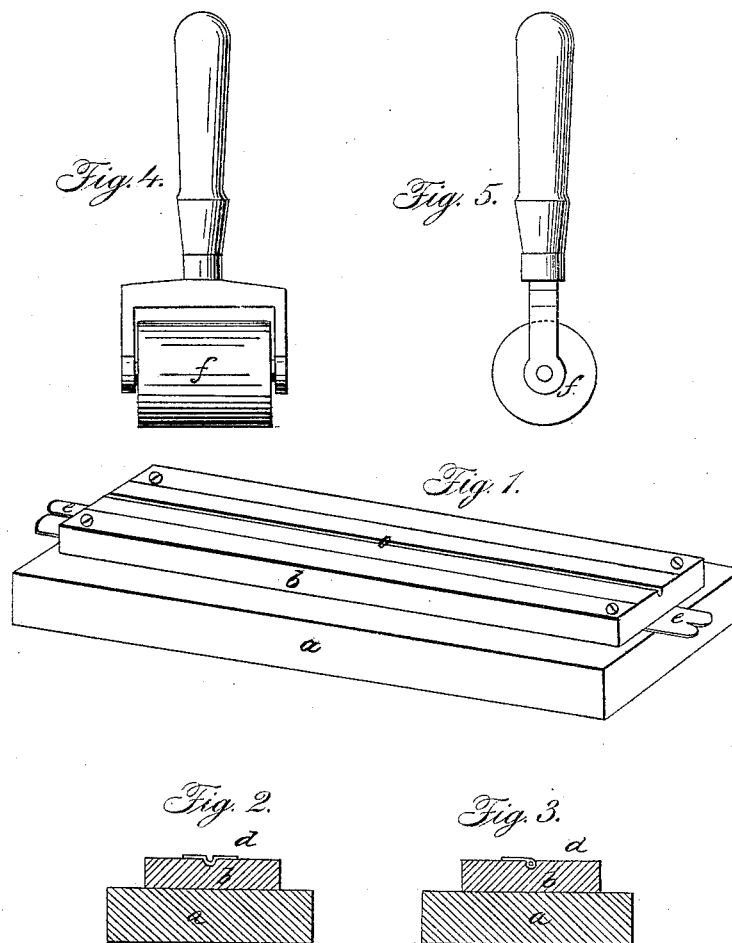


C. A. ENSIGN.
Making Rubber Fabrics.

No. 51,161.

Patented Nov. 28, 1865.



Witnesses:

Elisha Horton Jr
J W Bap

Inventor:

Chas A Ensign

UNITED STATES PATENT OFFICE.

CHARLES A. ENSIGN, OF NAUGATUCK, CONNECTICUT.

IMPROVED MODE OF MAKING BINDING FOR INDIA-RUBBER FABRICS.

Specification forming part of Letters Patent No. **51,161**, dated November 28, 1865.

To all whom it may concern:

Be it known that I, CHARLES A. ENSIGN, of Naugatuck, county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Making Binding for India-Rubber Fabric; and I do hereby declare that the same is described and represented in the following specification and drawings; and to enable others skilled in the art to make and use the same, I will proceed to describe the mode of operation by referring to the drawings, in which the same letters indicate like parts in each of the figures, the nature of which will be fully understood from the specification and drawings.

Figure 1 shows a perspective view of the device employed or the mode of operation to produce the formation of said binding. Figs. 2 and 3 are end views of the same, one showing the material laid lengthwise upon the die-plate, over the groove and about equal distance each side thereof, and a cord laid thereon directly over the groove, and the other showing the material placed in the same way upon said plate in a folded condition, complete, ready to be removed from the die-plate. Figs. 4 and 5 show a side and edge view of the roller employed to press or roll the cord and fabric into proper shape or condition.

a is a block of wood.

b is a plate or die, made of any proper or suitable material, having a groove, *c*, formed lengthwise near the center of the upper side. Said plate *b* is secured to the block *a* by screws or other proper means.

The whole so formed (or formed in some

other way substantially as described) is placed upon a bench or table in readiness for use. The fabric is first laid lengthwise on the die-plate or groove-plate, directly over the groove *c*, and a welt or cord, *d*, is secured at one end (by proper fastenings, as slitted plates secured at each end of the die-plate) and laid lengthwise over the fabric and groove, and secured at the opposite end and pressed or rolled into the groove by the use of the roll *f* in the hands of the operator. Then one edge of the fabric is turned over onto the opposite side, so as to bring the cord directly into the angle between the folds of the fabric, when the roller is again applied, and the folds are firmly set together and the binding completed for use.

I believe I have thus shown the nature, construction, and mode of operation, so as to enable a person skilled in the art to make the same.

The advantage of this improvement over the common way of folding the fabric and placing the cord in its fold, without the use of any device, must be obvious.

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

1. The employment of the groove-plate *b*, substantially as described, and for the purpose set forth.

2. The employment of the roller *f*, or its equivalent, in combination with the plate *b*, substantially as and for the purpose described.

CHAS. A. ENSIGN.

Witnesses:

E. HORTON, Jr.,
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