

A. ALBRIGHT.

Manufacture of Rubber-Coated Harness-Trimmings.

No. 137,873.

Patented April 15, 1873.

Fig. 2.

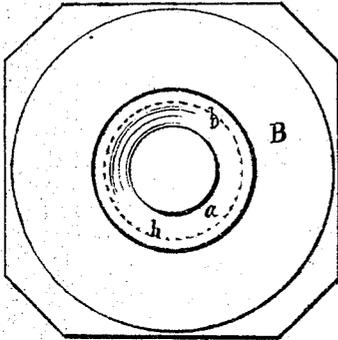


Fig. 1.

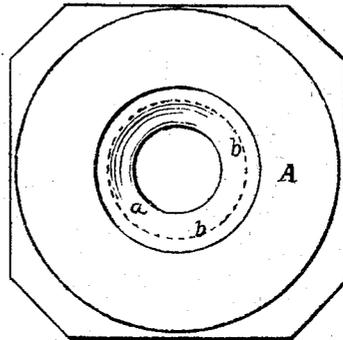


Fig. 3.

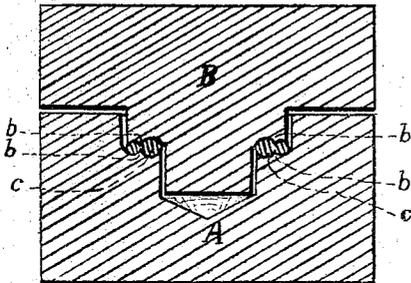


Fig. 4.

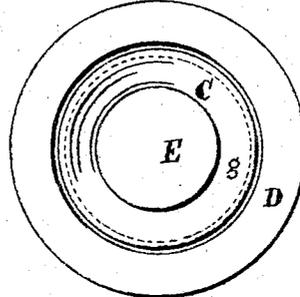
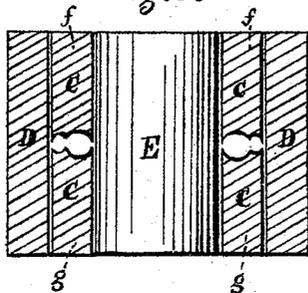


Fig. 5.



Witnesses:

Batholomew Galvin
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UNITED STATES PATENT OFFICE.

ANDREW ALBRIGHT, OF NEWARK, NEW JERSEY.

IMPROVEMENT IN THE MANUFACTURE OF RUBBER-COATED HARNESS-TRIMMINGS.

Specification forming part of Letters Patent No. **137,873**, dated April 15, 1873; application filed March 25, 1873.

To all whom it may concern:

Be it known that I, ANDREW ALBRIGHT, of Newark, in the county of Essex, and in the State of New Jersey, have invented certain new and useful Improvements in Rubber-Coating Harness-Trimnings; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon.

The nature of my invention consists in the formation of a die constructed of two or more pieces for stamping and finishing harness or carriage trimmings, when a metallic body is covered with suitably-prepared rubber or other equivalent substances, without having any refuse or surplus material in the die when the process is done. This is an improvement on a patent issued to me on the 13th day of February, 1872, for the same purpose, and re-issued in two divisions on the 26th day of November, 1872.

To enable others skilled in the art to make and use my invention, I will proceed to describe more specifically its construction and operation.

In the drawing, Figures 1, 2, and 3 represent one die formed of two pieces—Fig. 1 being a plan view of the bottom or female die; Fig. 2, a reverse plan view of the top or male die; and Fig. 3, a vertical section of said female and male dies in their relative position to constitute one die and to stamp and press the martingale-ring between them—and Figs. 4 and 5 illustrate another die formed of four pieces—Fig. 4 being a top view with the upper half of the die proper lifted out so as to show the top of the lower half of said die, and Fig. 5 being a partly vertical section, showing the relative position of the four pieces going to constitute one die.

In Fig. 1, A is the female die, made into the required form so as to give to the goods coated the desired finish without having cutting-edges to trim off any surplus material, as the die is pressed down snugly on the article being finished. *a* is a groove, and *b* points in the face proper of this die, by means of which a ring may be finished with imitation stitching.

In Fig. 2, B is the male die, also without

the cutting-edge, so that when the goods are prepared for the die no refuse portions of the finishing substance attach to them, and, as they are pressed equally on all sides, there is no trimming needed; but the goods are perfectly finished before they leave the die, so there is no paring or trimming or refuse material left in the die. The face of this die is shaped to correspond with face of die A.

In Fig. 3, A is the female die; B, the male die; *b*, the points to imitate stitching; and *c*, a ring covered and placed within the die to be finished.

In the die shown by Figs. 4 and 5, C is the die proper, formed of the upper and lower halves, respectively marked *f* and *g*, the face of *g* being shown in Fig. 4. The faces of these halves *f* and *g* are cut as dies usually are, and are made to correspond to the shape of any article I wish to press or finish in it. This die, like the one shown in Figs. 1, 2, and 3, is not provided with cutting-edges to trim the article after it has been pressed, as it is intended to prepare and finish the article so that no after trimming or paring will be required, nor any surplus material left within the die. The die proper, C, is a cylinder, and fits snugly between the solid core E and the confining band or cylinder D, as clearly indicated in Fig. 5, instead of being made in the upper and lower halves of the die, as is the case shown in Fig. 3.

These dies, A B and C D E, can be made in shape to correspond to the shape of any or all articles of harness-trimming I may wish to cover, such as rings, terrets, hooks, buckles, &c.

In using the compound for coating the various articles, I usually roll it into sheets and cut it in shape to suit the size and shape of the article to be coated. It is then by hand put snugly around the same without having any surplus material adhering, and when put into the die and pressed, the pressure being equal on all sides, it requires no trimming by cutting-edges within and part of the die, and consequently no refuse material is left in the die when the process is completed.

I am aware that molds have been used for giving shape to the articles coated; but, as the molds are not used for increased pressure

on the material, they cannot do what I accomplish by the use of my dies.

All goods molded by the old process require more or less hand-work to finish them; but, by the use of my dies, I am enabled to make a smooth and complete finish to the coated goods; and, as I am the first to use dies with pressure on the goods, I desire to secure by Letters Patent the die above described as an improved die on the patent above referred to.

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

1. The die A B, constructed substantially as described, for pressing and finishing composition-coated harness or carriage trimmings

without leaving any refuse material in them, as set forth.

2. The compound die C D E, constructed substantially as described, for pressing and finishing composition-coated harness and carriage trimmings without leaving any refuse material in them, as set forth.

In testimony that I claim the above-described certain new and useful improvements in rubber-coating harness-trimmings, I have hereto signed my name this 19th day of March, 1873.

ANDREW ALBRIGHT.

Witnesses:

F. C. BOWEN,

J. C. CLAYTON.

RUBBERSET

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