

M. J. DUFFY.
Printing Hat-Tips.

No. 131,858.

Patented Oct. 1, 1872.

Fig. 1.

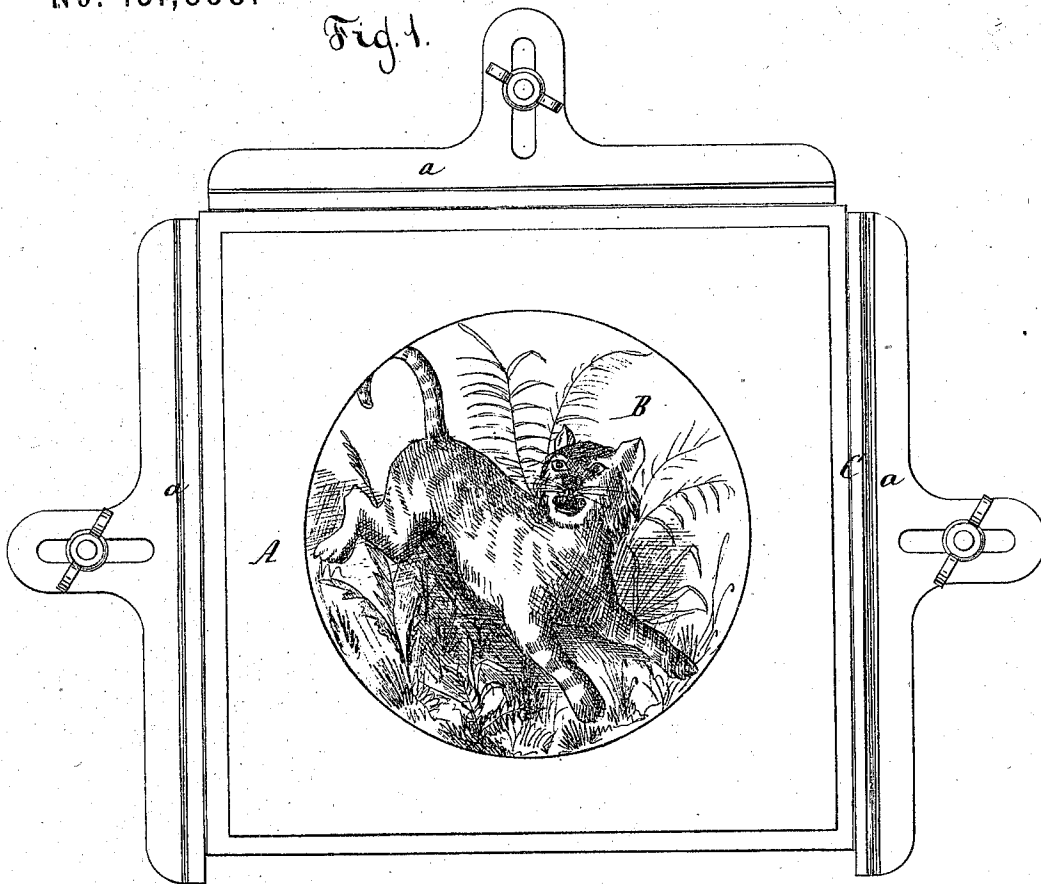
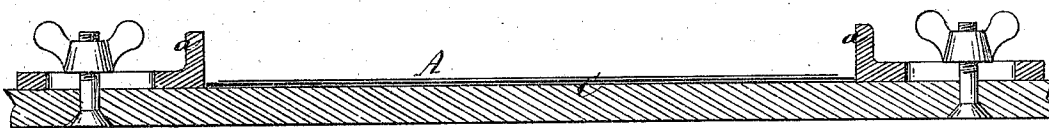


Fig. 2.



Witnesses.
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UNITED STATES PATENT OFFICE.

MICHAEL J. DUFFY, OF NEW YORK, N. Y.

IMPROVEMENT IN PRINTING HAT-TIPS.

Specification forming part of Letters Patent No. 131,858, dated October 1, 1872.

To all whom it may concern:

Be it known that I, MICHAEL J. DUFFY, of the city, county, and State of New York, have invented a new and Improved Process for Ornamenting Tips for Hats and Caps; and I do hereby declare the following to be a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which drawing—

Figure 1 represents a plan of my invention, and Fig. 2 is a transverse vertical section of the same.

Similar letters indicate corresponding parts.

The object of this invention is to produce on tips for hats and caps, which tips are usually made of satin, silk, or other textile material, designs in more than one color, said designs being printed directly on the body of the tip. The difficulty which I had to overcome in executing this work is due to the flexible nature of the satin or other textile material composing the body of the tip, the edge of such satin being so soft that it does not enable the operator to adjust the tip under the press in the proper position to bring the various colors composing the design to be printed to register. My invention consists in first attaching the tip which is to be ornamented to a supporting-sheet of paper, card-board, or other suitable material, and then exposing it to the action of the dies in such a manner that, by bringing the edge or edges of said supporting-sheet to bear against a suitable gage, the tip to be printed can be readily adjusted in the requisite position to bring the various colors to register during the successive operations of printing.

In the drawing, the letter A designates a tip for a hat or cap, which is ornamented by a

design, B, printed directly on the body of the tip in several colors. Said body consists of satin, silk, or other textile material, the edges of which are soft and flexible, so that the same form no guide whereby the tip could be adjusted under the press in the proper position to bring the various colors to register. Before I commence the operation of printing, therefore, I secure the body of the tip on a supporting-sheet, C, of stiff paper or card-board, the edges of which are stiff, so that the same can be brought to bear against a suitable gage, and thereby I am enabled to adjust the tip under the press during the successive operations of printing in the proper position to cause the various colors to register with accuracy and to produce a perfect design. By following this process I am enabled to print directly on a tip of satin or other textile material designs in two or more colors with the same facility with which such designs are commonly printed on paper or other material presenting stiff edges.

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

The within-described process of producing designs in various colors directly on the body of a hat or cap tip made of satin or other textile fabric by first securing said tip on a supporting-sheet of stiff paper or other suitable material, and then exposing the same to the subsequent operations of printing, the edges of the supporting-sheet serving as guides whereby the various colors are brought to register, substantially as described.

This specification signed by me this 12th day of February, 1872.

M. J. DUFFY.

Witnesses:

W. HAUFF,

E. F. KASTENHUBER.