(No Model.)

G. YULE.

PROCESS OF ORNAMENTING HATS.

No. 430,457. Patented June 17, 1890

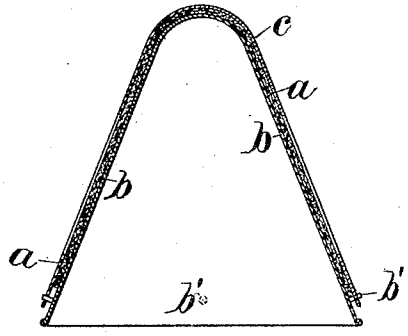


Fig. 1.

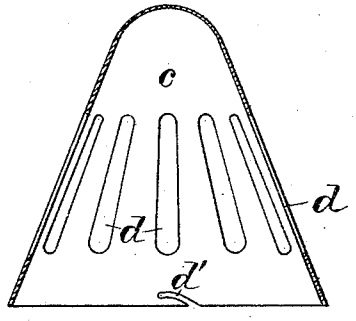


Fig. 2.

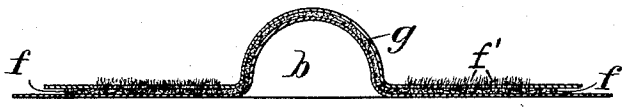


Fig. 3.

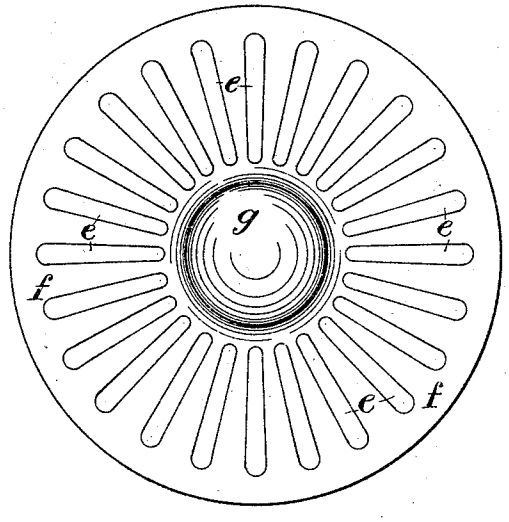


Fig. 4.

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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

GEORGE YULE, OF NEWARK, NEW JERSEY, ASSIGNOR TO THE YULE MACHINE COMPANY, OF SAME PLACE.

PROCESS OF ORNAMENTING HATS.

SPECIFICATION forming part of Letters Patent No. 430,457, dated June 17, 1890.

Application filed August 10, 1889. Serial No. 320,364. (No model.)

To all whom it may concern:

Be it known that I, GEORGE YULE, a citizen of the United States, residing at Newark, Essex county, New Jersey, have invented certain new and useful Improvements in the Process of Ornamenting Hats, fully described and represented in the following specification, and the accompanying drawings forming a part of the same.

The object of this invention is to provide a simple and effective method of decorating hats.

The method consists in providing the hat with an ornamental design of napped fur which contrasts with adjacent surfaces that are not napped. The napped fur is disposed upon the hat in the desired ornamental design, either by covering the body of the hat with a stencil before napping any of the same, and then raising a nap upon the parts exposed, or by applying a stencil to a hat having the fibers already raised (by brushing or other means) and then removing the raised fibers exposed through the apertures of the stencil.

I am aware that heretofore a nap-hat has been formed with an ornamental design for application to a hat-body by means of a cone-shaped stencil applied to the inner surface of the forming cone to obstruct a part of the perforations in the latter, so as to collect the felt upon the forming-cone in portions corresponding with the apertures in the stencil; but my invention differs from such process in forming the decoration directly upon the hat after the completion of the "forming" operation. By my method both plain and decorated hats may be "formed" in precisely the same manner and by the same apparatus, the hats to be decorated being subjected merely to an additional operation upon the portion to be raised or otherwise treated to form the desired contrast with the remaining portions of the hat. The decorations may be performed either before or after the hat is shaped, the form of the stencil in either case being made to correspond with that of the hat at such stage of the hat-making process.

In the annexed drawings, Figure 1 is a vertical section of a hat-body upon the forming-cone with the stencil applied to the outer surface of the same. Fig. 2 is a similar view of the stencil detached, and Fig. 3 a similar view of a shaped hat-body supported upon a suitable form and having a stencil applied to its outer surface. Fig. 4 is a plan of a hat decorated by my process with radial corrugations upon the brim.

a is the hat-body, *b* the forming-cone or other suitable support therefor, and *c* a cone comprising the stencil provided with apertures *d*. It is obvious that the apertures *d* may be formed of any shape or size and disposed over any part or the whole of the surface of the stencil, so as to form the required design upon the hat.

For the purposes of illustration, I have shown herein a design for the stencil adapted to form radial corrugations *e* around the brim *f* of the hat, the crown *g* being completely covered and the rim being exposed in radial strips.

My process is adapted for treating suitably such portions of the hat as are exposed through the apertures in the stencil in order to change the appearance of the exposed portions, so as to form a contrast with the covered portions, and it is therefore immaterial to my invention whether they be treated by combing or brushing the same to raise the fibers, or whether a part of the exposed portions be removed by singeing or pouncing.

In cases where the hat is not napped the stencil is first applied and then the fibers on the surface of the exposed portions are raised by carding or brushing; but with napped hats having the fibers already raised before the stencil is applied the fibers *f'*, which would project through the apertures *d*, as shown in Fig. 3, are removed by singeing, pouncing, or any other convenient means.

It is evident that by the above-described process either the upper or lower side or any other part of the hat may be readily decorated.

In Figs. 1 and 2 I have shown a means by which a stencil of conical form may be clamped firmly upon a hat-body of similar form. This consists in a series of pins *b'* projecting from the exterior surface of the form-

ing cone or support *b* and engaging the cam-slots *d'* in or near the lower edge of the stencil *c*. It is evident, however, that any other convenient means may be used for securing the stencil upon the hat.

From the above description it is obvious that the essential feature of my invention is operating upon the portion of the surface of the hat exposed by the apertures in the stencil by any of the well-known means of altering the physical character of the surface, whether by singeing or clipping projecting fibers therefrom, or carding the fibers where the exposed surface is smooth. By any of these operations the result would be the same so far as its relation to my invention is concerned, for the constitution of the exposed surface would be affected in each case, and the appearance thereby modified to form a contrast with the other portions of the hat.

I am aware that a stencil has heretofore been used in applying coloring-matter to certain portions of a hat, and I therefore disclaim the use of a stencil, broadly, for the purpose of ornamenting hats. Where the brim or crown alone requires ornamentation by the methods herein described, it is obvious that the same would be properly prepared for the application of the stencil and then treated in a suitable manner. Thus the brim alone may be napped and then ornamented by applying a stencil and removing a portion of the napped fibers to form an ornamental design.

I do not therefore limit myself to the ornamentation of the entire hat by the means described.

Having thus set forth my invention, what I claim herein, and desire to secure by Letters Patent, is—

1. The method of ornamenting hats, which consists in first applying a stencil to its surface, and then operating mechanically upon the exposed fibers to change the physical character and appearance of the exposed portion of its surface, substantially as and for the purpose set forth.

2. The method of ornamenting hats, which consists in first applying to a hat having raised fibers, as described, a stencil fitted thereto, and provided with an ornamental design, and then removing by suitable means, as pouncing or singeing, the fibers projecting through the apertures in the stencil, substantially as and for the purpose set forth.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

GEORGE YULE.

Witnesses:
GEO. FÜCHTER,
H. J. MILLER.