

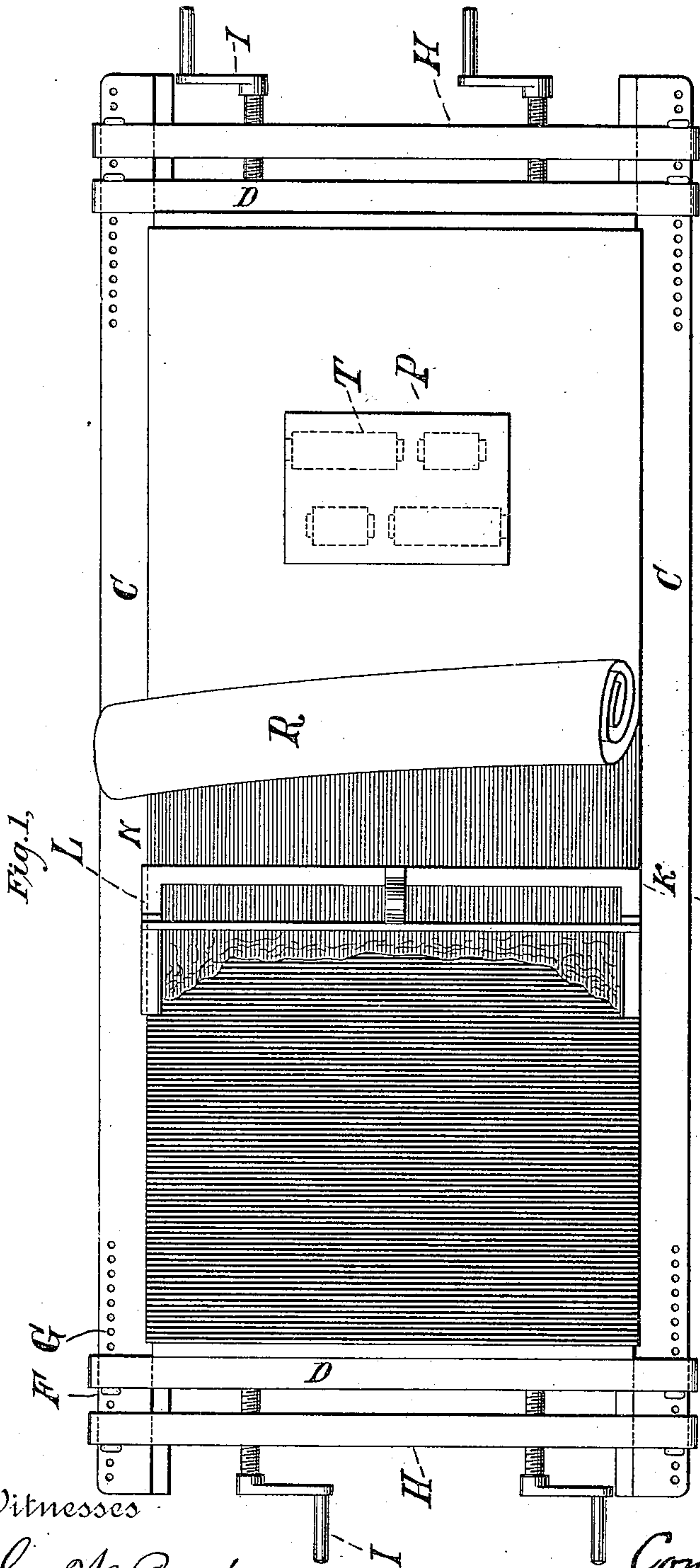
(No Model.)

C. LACHNER.

FEATHER TRIMMING AND METHOD OF MAKING THE SAME.

No. 356,141.

Patented Jan. 18, 1887.

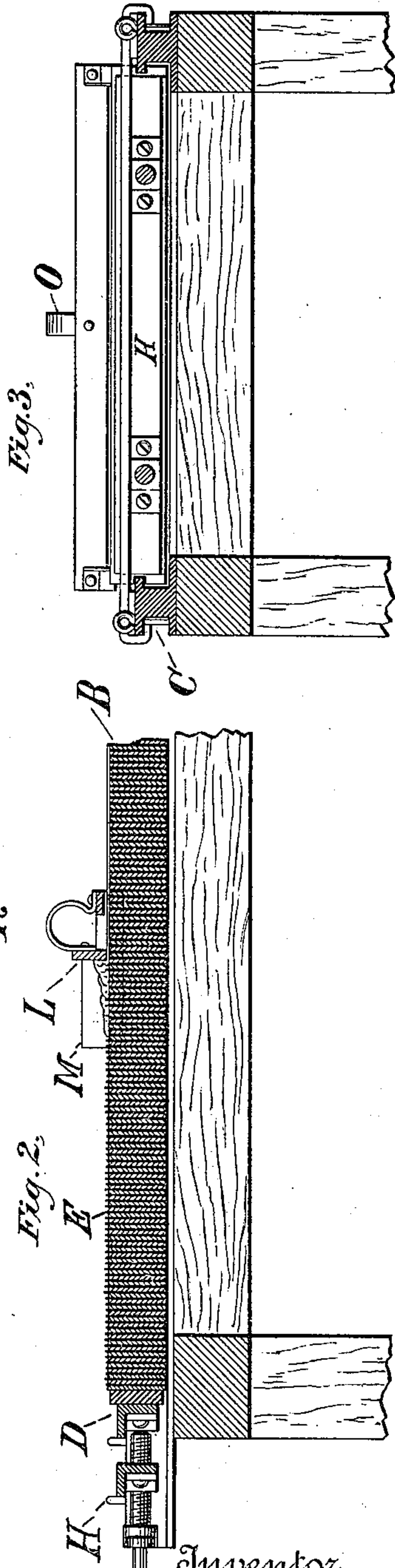


Witnesses

Geo. W. Breck.
A. E. Sutton.

By his Attorney

Comd - Lachner
Attorney
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UNITED STATES PATENT OFFICE.

CONRAD LACHNER, OF NEW YORK, N. Y.

FEATHER TRIMMING AND METHOD OF MAKING THE SAME.

SPECIFICATION forming part of Letters Patent No. 356,141, dated January 18, 1887.

Application filed September 22, 1885. Renewed June 24, 1886. Serial No. 206,172. (No model.)

To all whom it may concern:

Be it known that I, CONRAD LACHNER, a subject of the Emperor of Germany, and a resident of the city, county, and State of New York, have invented certain new and useful Improvements in Feather Trimming and in the Method of Making the Same, of which the following is a specification.

My invention relates to feather trimming of that class wherein the feathers are applied to a suitable backing of muslin or other material by means of some adhesive substance.

So far as I am aware, trimming of this description has heretofore been made wholly from the ends of feathers, which are fastened to the backing without having the down separated from the shafts or stems. Trimming made in this way requires considerable subsequent treatment, consisting of clipping and combing, to fit it for the market, and even when so treated it is uneven in appearance and harsh to the touch. In order to overcome these objections and to produce a better article, I make use of the down of the feather only, which has been separated from the stem in a machine especially designed for the purpose, and which is fully described in an application for Letters Patent filed simultaneously herewith.

The machine mentioned separates the down from the stems and leaves the down between strips of card-board, the ends of the feathers projecting just above the top of the cards and in a condition to be applied to a suitable backing.

My present invention relates to the method employed in applying the feathers to the backing, and to the feather trimming made thereby.

In the accompanying drawings, which illustrate the manner in which my invention is carried into practice, similar letters of reference indicate like parts, in which—

Figure 1 is a plan view showing the arrangement of the table upon which the cards and the feathers between them are clamped and held, and also illustrates the method of applying the adhesive material and backing. Fig. 2 is a longitudinal section taken on the line x of Fig. 1. Fig. 3 is a transverse section on the line $y y$ of Fig. 1.

In the drawings, A indicates a table pro-

vided with a level top, of any desired length, and sufficiently wide to contain the cards B between the parallel guides C, arranged on each side of the table. When the cards are removed from the cutting-machine, they are arranged upon the table parallel to each other, as shown in Fig. 2, the feathers E projecting above the top of the cards. When the surface of the table is covered with cards, the bars D on each end of the table are pushed snugly up against the cards, and retained in that position by means of the pins F, adapted to fit in the holes G in the guides.

Back of the bars D are the bars H, in which are arranged the crank-screws I. By means of the screws the bars D are advanced until the cards are pressed together into a compact body. By the compression of the cards the feathers which project above the cards are brought close together, so as to completely cover the edges of the cards. The feathers are now in a condition to receive the adhesive material by means of which the feathers are secured to the backing. The adhesive material used for this purpose is preferably a cement or composition of rubber, although any adhesive material which can be made plastic and which will not crack or be affected by ordinary changes of temperature will answer the purpose. The adhesive material is applied as a thick liquid or plastic mass by means of a distributor, K, which consists of a plate of wood or metal, L, supported upon guides M, which slide, when moved by the operator, upon the guides on the sides of the table. The plate is so arranged that its lower edge is just below the tops of the feathers and above the edges of the cards. It can also be adjusted vertically, thereby determining the thickness of the layer of adhesive material laid over the feathers. Back of the plate K is a horizontally-arranged plate, N, which serves to smooth over the material after the plate K has spread it.

O is a handle by which the distributor is moved. After applying the adhesive material and allowing it to "tack," the next step is to apply the backing R.

The material used may be muslin, linen, silk, or any other suitable fabric.

The backing is conveniently handled in the

form of a roll a little wider than the width of the feather-cards. The free end of the roll is applied over the adhesive material at one end of the table and gradually unrolled as the fabric covers the surface, care being taken to press the fabric closely into contact with the adhesive material and at the same time avoid air-pockets.

P represents a box, in the bottom of which are arranged a number of heavy iron rolls, T. After the fabric is applied, this box is moved over its surface, and serves the double purpose of pressing the adhesive material between the ends of the feathers, thereby picking up any that previously were not in contact with the adhesive material, and also pressing the fabric of the backing into contact with the adhesive material. The feathers between the cards are not at all injured by the heavy pressure applied.

It will be understood that the pressure can be applied in any convenient manner; that which I have described has been found to be efficacious in practice. After allowing the adhesive material to dry, the completed trimming can be taken from the table and the cards shaken out. Very little, if any, combing or clipping will be required to put it in a marketable condition.

In order to prevent the cards from sticking their edges can be coated with any material to which the cement will not adhere—such, for instance, as paraffine-wax.

The feather trimming as thus made is soft to the touch, and presents a much finer appearance than any other heretofore made.

I claim as my invention—

1. As a new article of manufacture, feather trimming made wholly of the down of feathers applied to a suitable backing by means of an adhesive material.

2. As a step in the process of manufacture of feather trimming, the insertion of the down of feathers between strips of card-board or other suitable material in such a manner that that portion of the down which was nearest the stem of the feather shall project above the edge of the cards.

3. The herein-described method of making feather trimming, consisting of, first, inserting the down between parallel strips of card-board, the edges of the feathers projecting above the board; second, arranging such strips parallel to each other upon a suitable table, and, third, compressing such strips together in a horizontal plane, whereby the projecting edges of the feathers are brought together.

4. The herein-described method of making feather trimming, consisting of, first, inserting the down of feathers between strips of card-board, then arranging such strips parallel to each other upon a suitable table, then applying a layer of adhesive material, then applying a backing of muslin or other material, and finally making pressure over such backing.

In witness whereof I have hereunto set my hand this 9th day of September, 1885.

CONRAD LACHNER.

Witnesses:

A. E. SEXTON,
L. C. FITCH.