

J. LACMANN.

Manufacture of Hands and Feet for Dolls.

No. 148,835.

Patented March 24, 1874.

Fig. 1.

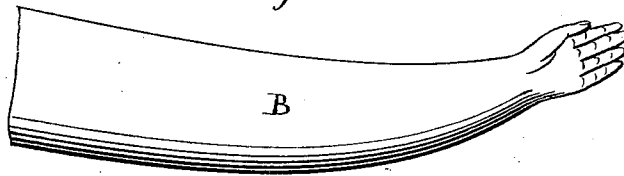


Fig. 2.



Fig. 3.

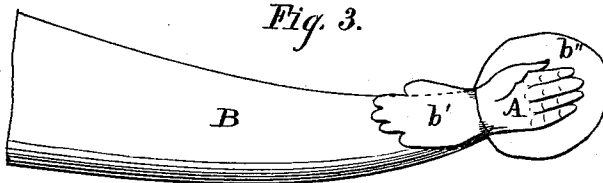
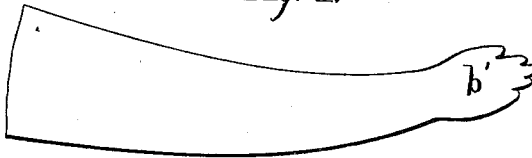


Fig. 4.



Witnesses:

Benz Morison
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Inventor:

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UNITED STATES PATENT OFFICE.

JACOB LACMANN, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN THE MANUFACTURE OF HANDS AND FEET FOR DOLLS.

Specification forming part of Letters Patent No. **148,835**, dated March 24, 1874; application filed January 30, 1874.

To all whom it may concern:

Be it known that I, JACOB LACMANN, of the city of Philadelphia, in the State of Pennsylvania, have invented an Improvement in the Manufacture of the Hands and Feet for Dolls, of which the following is a specification:

The production of the hand or foot of a doll out of leather, muslin, or other pliable fabric, by stitching division-lines to separate or develop the fingers or toes, is attended with much difficulty, and expense of time and labor, especially in the smaller sizes, and in those of the larger class where an artistic representation of the hand or foot is desirable.

The object of my invention is to produce a correct representation of the hand or foot of a doll in a simple and inexpensive manner, by first producing the hand or foot out of plastic *papier-maché* by compression in a two-part mold, previously carved or cast of brass or other suitable metal, and afterward slowly drying the said hand or foot, and then covering the same with an extended appropriate portion of the skin or covering leather, or other fabric, of the arm or leg, respectively, and again subjecting the said (covered) hand or foot to the pressure of the mold or dies, and thus producing the finished article attached to the arm or leg, the latter being afterward "fulled out," in the usual manner, with cotton, wool, or other suitable filling.

Figures 1 and 2 represent, respectively, the inner and outer sides of a left arm and hand as finished ready for attachment to the body of a doll. Fig. 3 represents the dried molded hand in position for covering it with the extended covering of the arm preparatory to again subjecting it to the final pressure of the mold or dies. Fig. 4 is a plan view of the covering material for the inner side of the arm and hand.

I make the *papier-maché* in the usual well-known manner, bringing it to about the consistence or plastic condition of stiff putty or dough, and bring it to the required form of a child's hand or foot with all the fingers or toes dis-

tinctly indicated without entire separation, substantially as shown in Fig. 3, by subjecting the mass to the pressure of the mold or dies—not shown. It is then taken out of the mold or dies and slowly dried, and, being now hard and rigid, it is ready for attaching to the skin of the arm in the manner indicated in Fig. 3, A being the dried *papier-maché* hand, presenting its inner-side surface; B, the skin or covering fabric of the arm for the inner side of same, with its extended portion *b'* for covering the inner side of the hand, sized or cemented and laid back until the extended portion *b''* of the outer side skin of the arm B is sized or cemented and turned, at its projecting edges, over accurately and closely around upon the inner side of the said hand A, when the part *b'*, which is cut to correspond with the boundary edges of said hand, as shown in Fig. 4, is laid and nicely fitted down upon the inner side of the hand, and then the so-covered *papier-maché* portion subjected to the pressure of the same mold or dies, and then withdrawn therefrom, and slowly dried, after which the arm is to be stuffed or filled out with the usual cotton, wool, or other packing, as represented in Figs. 1 and 2.

It will be seen that by my improved mode, just described, of producing the finished hand or foot of a doll, greater facility and economy of time are effected, and a more perfect or artistic article produced at less cost, and of greater durability in use.

I claim as my invention—

The improvement in the manufacture of hands and feet for dolls, consisting essentially of the process hereinbefore described, in which the molded core is formed of *papier-maché* covered, when dry, with leather or other suitable material, and allowed to set in the mold, substantially as set forth.

JACOB LACMANN.

Witnesses:

BENJ. MORISON,
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