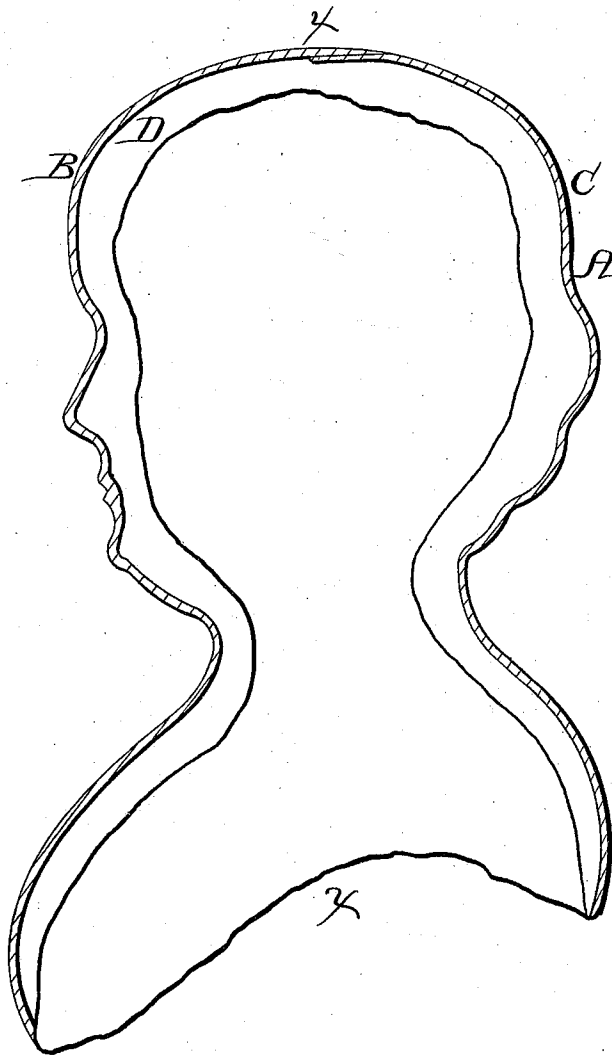


L.E. Sallee,
Doll,
Nº 46,270, Patented Feb. 7, 1865.



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UNITED STATES PATENT OFFICE.

LUCRETIA E. SALLEE, OF DECATUR, ILLINOIS.

MODE OF CONSTRUCTING DOLL-HEADS AND OTHER TOYS.

Specification forming part of Letters Patent No. 46,270, dated February 7, 1865.

To all whom it may concern:

Be it known that I, Mrs. L. E. SALLEE, of Decatur, in the county of Macon and State of Illinois, have invented a new and useful Improvement in Dolls' Heads and other Toys; and I do hereby declare that the following is 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.

The drawing, consisting of only one figure, shows an elevation of a vertical section of a doll's head made according to my invention.

This invention consists in making the heads of dolls and other toys of such materials and in such a way as to prevent them from being easily broken by falls or other violence which may happen to them.

The doll's head A which I have here shown in order to illustrate the principle of my invention is not meant as a guide in form or size, but only as a means of explaining the construction of toys of this and like kinds. The outer surface is made of leather or other tough or flexible material, which may be molded or pressed into irregular forms, and which will afterward retain such forms. The said outer surface is backed up by a cement, D, compounded of glue, vinegar, and plaster-of-paris, or their equivalents. This compound possesses the advantage of lightness, and is easily molded while wet and plastic, and rapidly sets and hardens.

The process of construction is as follows: A matrix is first to be made out of plaster-of-paris, and usually in two sections. In making a doll's head, the matrix may be in two sections or parts—one answering to the face and front and the other to the back of the head. The leather which is to form the outer coating or surface of the doll's head is next cut to fit to the size of the several sections or parts of the matrix, and then soaked in water until it is sufficiently soft and pliable. It is then laid within the several matrices and pressed and forced into them so as to conform

fully to all the lines and curves therein. The leather should be laid with its smooth or finished surface to the walls of the matrices. It is then to be pressed and rubbed with a yarn ball, or a sponge or other suitable absorbing material, which will absorb or soak up the surplus water from the leather without displacing any part of its configurations in the matrices. A small portion of glue is next dissolved in vinegar and the solution is thickened with plaster-of-paris until the mass is of a proper or usual consistency, when it is immediately poured upon the leather in sufficient quantity to hold the leather in shape after it is removed from the matrix. The forms thus molded are next taken out from their matrices and united at their edges by lapping one edge over the other, and the joint cemented by the cement aforesaid. The parts thus formed are designated in the drawing by the letters B C, and the letter *x* designates the joint formed between the said parts. The cement or composition D should be in sufficient thickness to form a body or support for the leather or other material which forms the outer covering of the toy. The said covering is then painted and varnished to suit the fancy and taste of the maker.

Dolls' heads and other toys made after this method are very durable, as well as economical. They are not easily defaced and are not liable to disfigurement from the fracture of their more prominent parts and features.

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

1. Making dolls' heads and other toys of an outer covering of leather, or its equivalent, and an inner body of cement which sets and hardens so as to support the said covering in shape, substantially as above described.

2. The cement or composition above described for making a body or backing to sustain the outer surface of the toy.

LUCRETIA E. SALLEE.

Witnesses:

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