S. ADLER.

DOLL.

APPLICATION FILED MAR. 13, 1919.

1,328,254.

Patented Jan. 20, 1920.

2 SHEETS—SHEET 1.

Fig. 1.

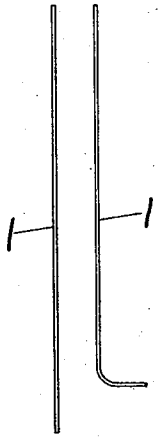


Fig. 2.

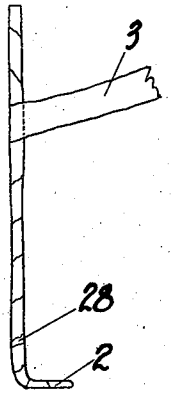


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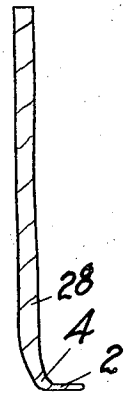


Fig. 4.

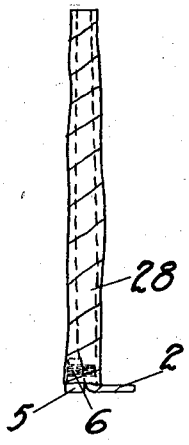


Fig. 5.

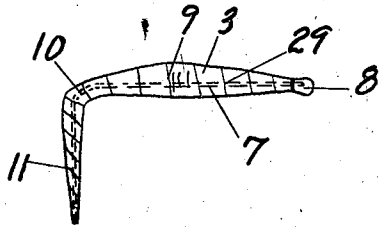


Fig. 6.

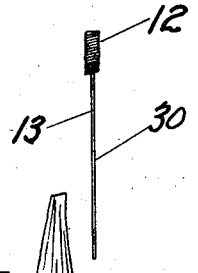


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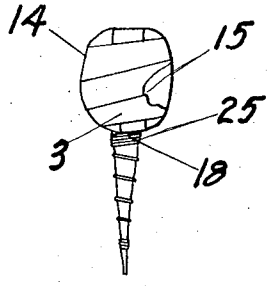
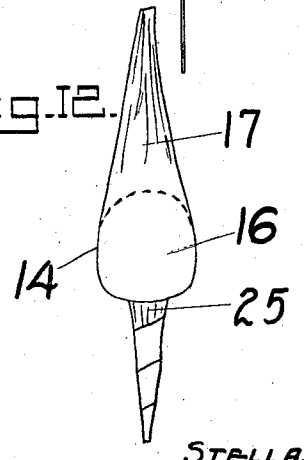


Fig. 12.



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2 SHEETS—SHEET 2.

Fig. 8.

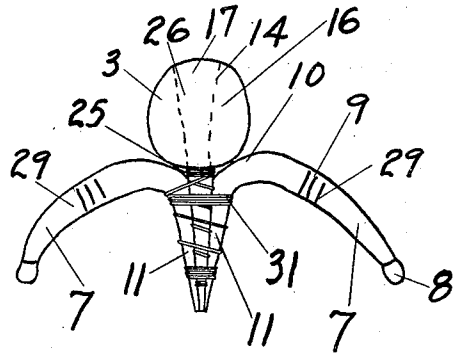


Fig. 9.

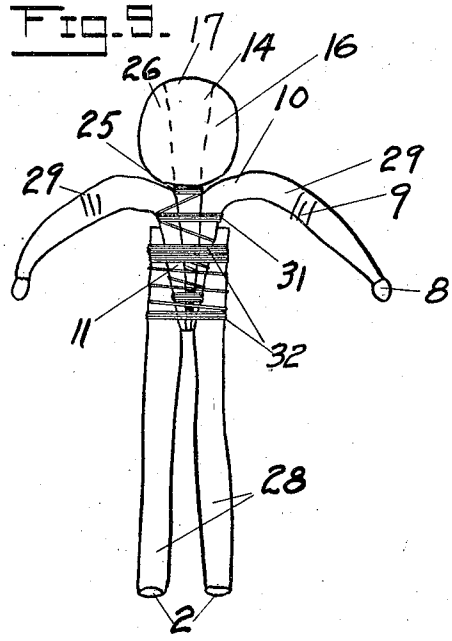


Fig. 10.

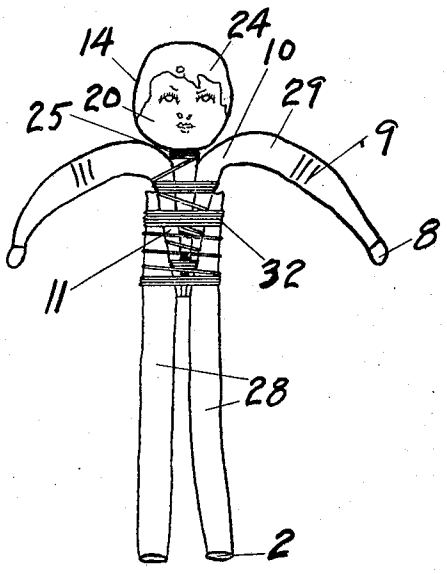
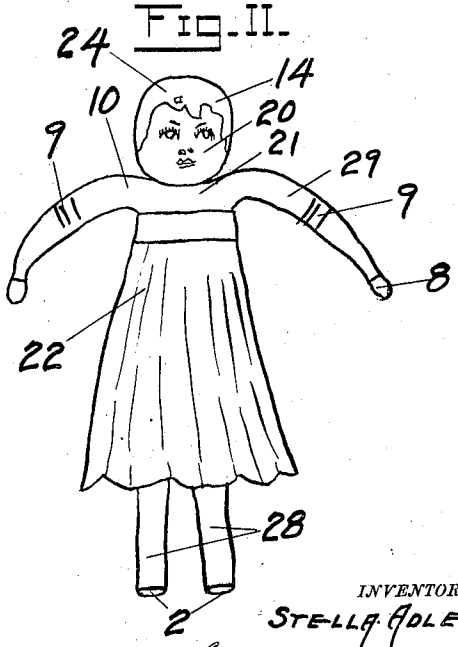


Fig. 11.



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DOLL.

1,328,254. Specification of Letters Patent. Patented Jan. 20, 1920.

Application filed March 13, 1919. Serial No. 282,260.

To all whom it may concern:

Be it known that I, STELLA ADLER, a citizen of the United States, residing in the city of St. Louis and State of Missouri, have invented new and useful Improvements in Dolls, of which the following is a specification, reference being had to the accompanying drawings.

This invention pertains to a new manufacture in the way of dolls, and especially paper dolls, as well as to the process for making same, and one of the objects of the invention is to provide a doll, embodying a combination of wire, paper and cotton in such manner as to produce a simple, cheap and attractive article of this kind.

A further object is to produce such a doll as will readily stand upright of itself, and which will be flexible.

A further object is to provide a simple and expedient process for making and assembling the several elements and parts of the doll.

In the drawings:

Figure 1 is a detail showing a length of ordinary wire as selected for one of the legs of the doll, same constituting the central core of the leg, and showing one end bent at right angles to form the foot;

Fig. 2 is a detail showing the leg wire in the process of being wrapped with strip paper to fill same out;

Fig. 3 is a detail showing the leg wire properly wrapped with strip paper to fill out the leg and foot;

Fig. 4 is a detail showing a tuft of paper rolled and cut transversely, and secured in place with wire to form the heel of the foot;

Fig. 5 is a detail of an arm wire of proper length and properly wrapped with paper in the same manner as the leg wire, the outer end being bent to form the elbow and hand, the inner end being bent downwardly for proper alinement with and attachment to the leg wire;

Fig. 6 is a detail of the head and neck wire coiled at the upper end to form a core for the head, the lower end depending as a connecting neck element;

Fig. 7 is a detail showing the head and neck wire in the process of being wrapped and filled out with cotton and paper;

Fig. 8 shows the arm elements assembled and bound together with the head and neck elements, ready for attaching the leg elements.

Fig. 9 shows the two leg elements, the two arm elements, and the head and neck elements properly assembled to form the completed torso or body, and so bound together with strands of wire;

Fig. 10 shows the head properly colored to represent the face and hair;

Fig. 11 shows the doll thus fully made up, and equipped with a paper dress.

Fig. 12 shows how a final length of paper is brought vertically up across the front of the head to form the face, same being then folded down at the back of the neck.

In carrying out my invention in its preferred construction, and referring more particularly to the drawings, I take two lengths 1 of fine wire, the proper length to form the legs 28 of the doll, and bend the lower ends outwardly at right angles to form the feet 2. I then take strips 3 of tissue paper or other paper, and wind same tightly and spirally upon and over the leg wires 1, and upon and over the feet 2, reversing the directions of the winds, and flattening same out at the feet, so as to run the paper back and forth along the wire until the legs and feet are properly filled out, after which the final end 4 of the paper may be tucked in, or pasted, or otherwise secured at or near the feet 2, or at any other point. A short length, or tuft of closely rolled, and transversely cut paper is then bound with a strand 6 of the wire at the back of the foot 2, so as to form the heel 5, by virtue of the support of which the completed doll is enabled to stand upright. Likewise, two other lengths of wire, 7 are similarly cut and incased in the paper 3 to form the arms 29, and are then bent to form the hands 8, the elbows 9, and the shoulders 10. The shoulder joints 11 depending downwardly from the shoulders 10 afford means of attachment to the legs. Another length 30 of wire is then taken, and the upper end bent, coiled or knotted to form the head core 12 with the depending neck joint 13. This element is then likewise filled out with cotton 15, and bound and wrapped with paper 3, so as to properly fill out and shape the head 14 and neck 25. If desired, the paper 3 may be used in combination with the cotton 15 to help fill out the head and other portions. When the head 14 is properly filled and shaped, a final length 16 of

the paper is brought vertically up across the front of the head to form the face 26, and is then folded at the top as shown at 17, and then is brought down at the back and down along the back of the neck. A strand 18 of wire is drawn around the neck to lock the paper in position upon the head. The head and neck element is now first taken and the neck 25 is inserted between the shoulder joints 11 and these joints 11 are thus bound thereto with strands 31 of the wire. The two leg elements 28 are next taken and placed one at each side of the shoulder joints 11 and extended downwardly, and thus are bound together with the head, neck and arm elements with strands 32 of the wire, and so that the arms 7 will stand outspread in opposite directions. The leg elements 28 are cut long enough to extend up to and help form the shoulders and torso. Thus the several elements are assembled and bound together to form the completed body of the doll, the feet, hands and face side of the head being all turned, of course, in the proper direction. If desired the body portion may then be filled out with cotton 15 wrapped about the upper portion of the body after which a final wrapper 21 of paper is wrapped about and secured to the body, or the paper wrapper alone may be employed. An ordinary paper dress 22 is provided. The face 20 and hair 24 may be drawn, painted or stamped upon the head in any ordinary manner, or by any of the usual processes. In use it will be found that this doll so constructed will stand upright upon its feet, and that the arms and legs may be bent or flexed to any desired position.

While I have herein described a certain specific method and process of constructing and assembling the elements of my invention it is understood the said process need not be followed step by step in the precise order as laid down herein but the several steps might be varied or reversed without departing from the spirit of my invention as defined in the appended claims inasmuch as exactly the same final product would result; likewise other materials than those described might be employed, or the same materials as described might be used in different combinations.

What I claim to be new and patentable is:

1. A process for making dolls, same including the cutting of lengths of wire as cores for the head and neck, arms, legs and feet, the leg wires being cut long enough to extend up to the shoulders and thus helping fill out, and form the body; then bending the ends of the leg wires outwardly to form the feet; then wrapping said leg wires spirally with strip paper to fill out the body, legs and feet; then rolling two tufts of paper and binding a tuft at the back of each foot to form the heel; then wrapping the arm elements likewise spirally with strip paper to fill out the arms; then bending same to form the hands, elbows and shoulders and so as to leave depending shoulder joints as means of attachment to the legs; then bending the head and neck wire to form a head core with depending neck core; then filling out the head core with cotton to form the rounded head; then wrapping the head and neck core with paper to form the face and neck; then binding the head and neck element to the two depending shoulder joints so that the arms will stand out in opposite directions, with the hands turned forwardly; then placing the two leg elements one on either side of the depending shoulder joints with the upper ends thereof positioned beneath the shoulders and with the feet turned forwardly; then binding the leg elements to the head, neck and arm elements to form the body.

2. A process for making dolls, same including the cutting of lengths of wire as cores for the head and neck, arms, body, legs and feet; then bending the ends of the leg wires outwardly to form the feet; then wrapping said leg wires spirally with strip paper to fill out the body, legs and feet; then rolling two tufts of paper and binding a tuft at the back of each foot to form the heel; then wrapping the arm elements likewise spirally with strip paper to fill out the arms; then bending same to form the hands, elbows and shoulders and so as to leave depending shoulder joints as means of attachment to the legs; then bending the head and neck wire to form a head core with depending neck core; then filling out the head core with cotton to form the rounded head; then wrapping the head and neck core with strip paper to form the face and neck; then binding the head and neck element to the two depending shoulder joints so that the arms will stand out in opposite directions, with the hands turned forwardly; then placing the two leg elements one on either side of the depending shoulder joints with the upper ends thereof positioned beneath the shoulders and with the feet turned forwardly; then binding the leg elements to the head, neck and arm elements to form the body; then filling out the body with a paper wrapper and then coloring the head to represent the face and hair.

3. A doll, comprising two lengths of wire cut and bent to form cores for the body, legs and feet; two lengths of wire cut and bent to form cores for the arms with the inner ends extended downwardly as means of attachment to the neck and legs; one length of wire cut and bent to form a core for the head and neck, the neck core being extended downwardly as means of attachment between and to the arms and legs; strip paper

spirally wrapped about the leg and arm elements to fill out the legs, arms and feet; tufts of paper attached to the back of the feet to form heels; a cotton filling for the head; a paper wrapper for the head superimposed over the cotton filling; means for properly binding the several elements together; a paper wrapper for the completed doll and a face and hair properly depicted upon the head of the doll.

STELLA ADLER.

Witnesses:
A. K. DOHLE,
M. KUNZ.