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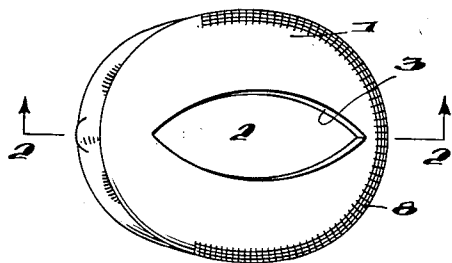
V. D. LILIENSTERN

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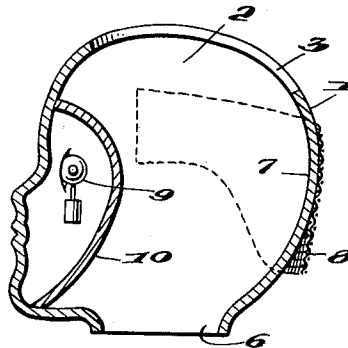
DOLL HEAD WITH HAIR

Filed Dec. 27, 1948

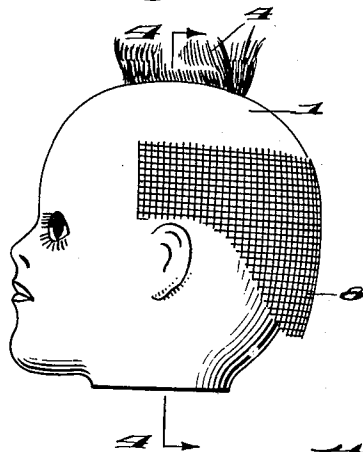
*Fig. 1.*



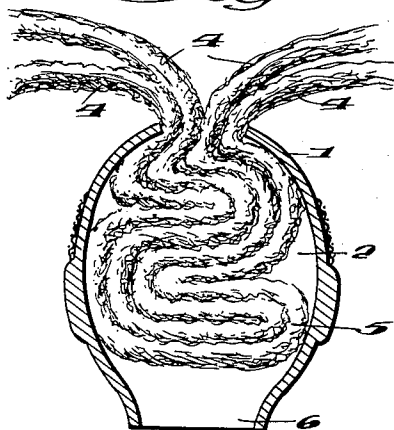
*Fig. 2.*



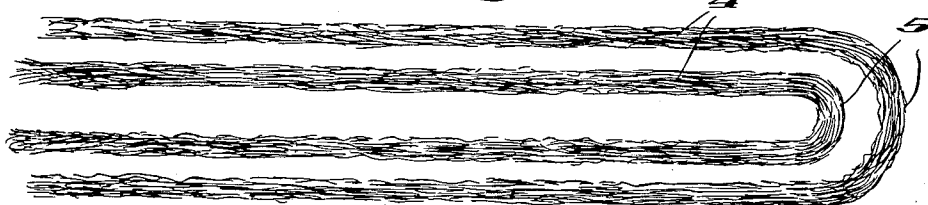
*Fig. 3.*



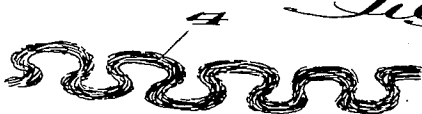
*Fig. 4.*



*Fig. 5.*



*Fig. 6.*



Inventor

VERA D. LILIENSTERN,

By

*Hall + Houghton*

Attorneys

## UNITED STATES PATENT OFFICE

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## DOLL HEAD WITH HAIR

Vera D. Lilienstern, Scarsdale, N. Y.

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12 Claims. (Cl. 46—172)

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This invention relates to figure toys, more especially dolls, and aims to provide a novel head construction facilitating dressing, and repeated redressing, of the hair of the doll, and resides in the features and combinations hereinafter described and particularly pointed out in the appended claims.

In the accompanying drawings exemplifying the invention.

Fig. 1 is a plan view of a doll head adapted for the practice of the invention, with the hair elements omitted.

Fig. 2 is a vertical section thereof taken on the line 2—2 of Fig. 1 in the direction indicated by the arrows.

Fig. 3 is a side elevation of the head of Fig. 1, showing the hair element in part.

Fig. 4 is a vertical section taken on the line 4—4 of Fig. 3 looking in the direction indicated by the arrows.

Fig. 5 is a diagrammatic view of a preferred arrangement of dispensable hair strands.

Fig. 6 is a diagrammatic view exemplifying marcel waving or like strand unitizing treatment of the hair.

In the illustrated embodiment the hair bearing doll or like figure comprises a head or hair bearing portion 1, and is provided within its body with a hair storing cavity 2 and a hair dispensing opening 3 extending therefrom.

The opening 3 is preferably elongated in a fore and aft direction, being elliptical with pointed ends in the form shown, as this provision, in cooperation with the form of hair employed, facilitates parting and facilitates anchorage of the hair for combing.

As is shown in Figs. 4 to 6 the hair 4 comprises at least one long heavy strand, having a substantial part of its length stored in the cavity 2, and progressively withdrawable from the body 1 through the opening 3 to simulate hair growth and replenish the available hair after cutting or the like.

As shown in Figs. 3 and 4 the hair strands 4 are preferably relatively wide in proportion to their thickness and arranged with their width generally parallel to the fore and aft axis of the elongated dispensing opening 3. Preferably two or more partially matted relatively flat strands are employed as this facilitates the dispensing and parting of the hair.

In the form shown in which four generally parallel strands are employed, it is advantageous to arrange two unitary strands 4 flatwise on top of one another, and fold them end to

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end to form a bight 5 (Figs. 4 and 5). This bight may then be forced downwardly through the opening 3 well within the cavity, as by a blunt pushing blade. The rest of the hair may then be inserted by carrying the hair from side to side and forcing it in short sections into the cavity after each turn with the pushing blade. For example, in the case of a relatively small long-haired doll about half a yard of imitation non-inflammable hair 4 may be used. As shown in Fig. 6 the strand 4 of which this hair is made preferably is marcelled or otherwise waved or treated so as to give it strand unity and body and render it withdrawable as a single body. By the above inserting procedure all but about six inches of the plural parallel hair strands may be folded into the cavity 2 accordionwise in the form shown, as illustrated in Fig. 4. By following this procedure and placing the fold 5 from front to back the hair strands project in multiples of two and may easily be divided in half to form a part similar to a center part on a human head. When the part is formed by the proper insertion of the hair the protruding six inches may be combed out or separated to cover the entire head and especially the back portion thereof. By displacing the strands, or portions thereof, into the pointed ends of the opening 3, the hair is gripped and anchored against unwanted pulling-out during the combing operation.

Insertion of the hair downwardly through the dispensing opening 3 is preferred and this method is most easily employed for inserting a hair refill when the initial supply has been used up. However, particularly in the initial assembly, if desired, the hair may be inserted already folded through another opening in the body 1, such as the neck opening 6 or a similar opening made in the region 7 in the back of the head (Fig. 2) which may later be covered by the net 8 hereinafter described, or by the protruding portions of the hair 4.

Under the hair and on the regions forming the sides and back of the head is applied a coiffure foundation element 8 preferably formed as a type of net or other loosely woven material so that hair pins, bobby pins, etc. can be pushed through the hair and into the foundation element to fix, set and hold the hair in place. The net is secured to the body 1 as by pasting at its forward and upper edges and is allowed to hang or lie loosely in its center portions as shown in Figs. 2 and 3.

The advantage of the cavity in the head and

the insertion of the hair in the described fashion in combination with the net 8 will be readily apparent. This combination creates a doll in which growing hair is simulated. A child can withdraw the desired quantity of hair from the cavity of the head, set it in any style desired, employ long hair at one time and cut it for a short bob at another, and at will can start this procedure all over again. Furthermore, when the hair elements are used up by the trimming process a new piece or refill can be inserted in the cavity and the hair dressing play can be continued.

Bangs may be produced in various ways, as by the child cutting a lock of the hair from the protruding ends and pasting the cut lock or pieces thereof to the front of the head. As a practical matter many varied hair styles can be produced with this doll and children's interest in the toy therefore will not wane.

When the invention is applied to a doll having movable eyes, such as indicated at 9 in Fig. 2, it is preferable that some protecting material, as a partition 10, for example, be placed in the head behind the eyes so that the hair cannot block movement thereof or become tangled therein.

The same method is preferably used for dolls having open mouths or other open or movable parts.

The invention is not limited to the particular embodiments disclosed to illustrate the same but is defined in the appended claims.

Having thus described my invention, what I claim is:

1. A hair bearing doll or like figure particularly characterized in that it comprises a hair storing cavity within its body and a hair dispensing opening leading therefrom, and in that its hair comprises at least one long heavy strand having a substantial part of its length stored in said cavity and progressively withdrawable from said cavity through said opening to simulate hair growth and replenish the available hair after cutting or the like.

2. A hair bearing figure according to claim 1 in which said strand is relatively wide compared to its thickness and is folded centrally of its length to form a bight, in which the bight and the portions of the strand adjacent thereto are stored in said cavity, and in which the two ends of the strand project through said opening in generally flat parallel relation to facilitate parting of the projecting hair.

3. A hair bearing figure according to claim 1 in which the hair comprises at least two long heavy strands, relatively wide compared to their thickness and projecting from the opening in generally flat parallel relation to facilitate parting of the projecting hair.

4. A hair bearing figure toy according to claim 1 in which the hair comprises at least two long heavy strands relatively wide compared to their thickness and superimposed and folded centrally

of their length to form a bight and in which the bight and the portions of the strands adjacent thereto are stored in said cavity, and in which the four ends of the strands project through said opening in generally flat parallel relation to facilitate parting of the projecting hair.

5. A hair bearing figure according to claim 1 in which the hair projecting from the body is somewhat matted into four more or less unitary generally parallel strand portions facilitating uniform withdrawal and parting of the hair.

6. A hair bearing figure according to claim 1 further comprising a movable body member and a partition between said body member and said hair storing cavity.

7. A hair bearing figure according to claim 1 further characterized in that its long heavy hair strand is waved so as to give it unity and body and render it withdrawable as a unitary strand.

8. A hair bearing figure according to claim 1 further characterized in that it is provided with a coiffure foundation element adjacent said dispensing opening providing for securement of the projecting hair thereto in the arrangement thereof as a coiffure.

9. A hair bearing figure according to claim 8 in which said foundation element comprises a net secured to the figure at its end portions and having a loosely hanging portion therebetween.

10. A doll head having a generally elongated opening extending in a fore and aft direction across its top and at least one heavy strand of hair relatively wide as compared to its thickness stored within said head and withdrawable through said opening with its width paralleling the fore and aft axis of said opening.

11. A doll head having a generally elliptical opening extending in a fore and aft direction across its top and at least two heavy strands of hair each relatively wide as compared to its thickness stored within said head and withdrawable through said opening with their widths paralleling the fore and aft axis of said opening.

12. A doll head having a generally elliptical opening therein and at least one heavy strand of hair stored within said head and withdrawable through said opening, said opening having pointed ends adapted to grip the hair strand when the latter is displaced thereinto, to hold the strand during combing and the like.

VERA D. LILIENSTERN.

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