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CHANGEABLE FEATURE DOLL HEAD

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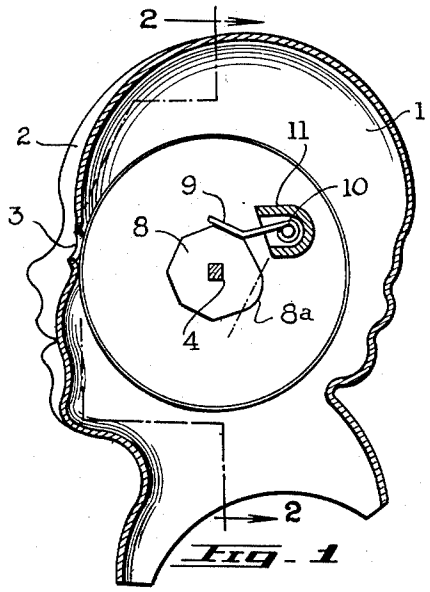

Fig. 1

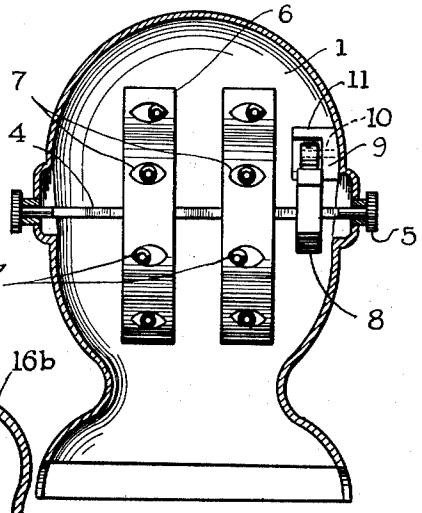

Fig. 2

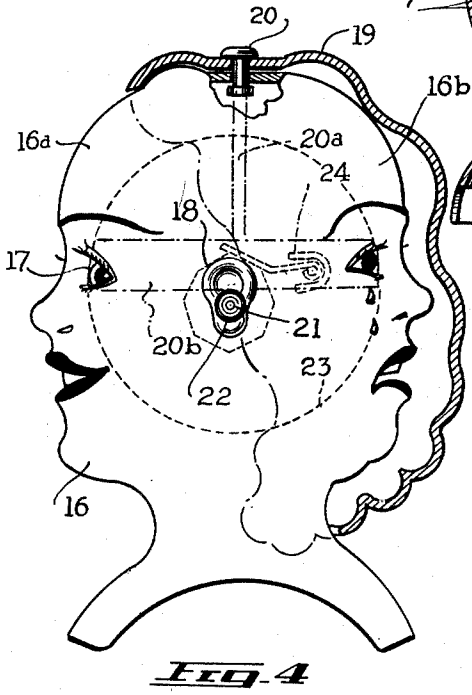

Fig. 4

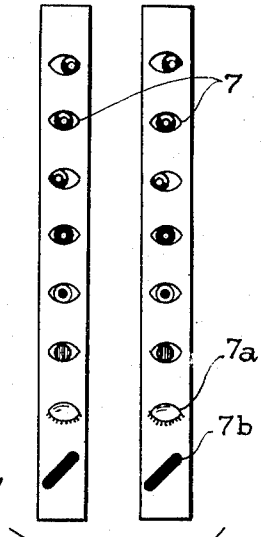

Fig. 3

Inventor
LOUISE M.G. OLIVIER
by W. Linn Gaskell
Attorney

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CHANGEABLE FEATURE DOLL HEAD

Louise M. G. Olivier, Ottawa, Ontario, Canada

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2 Claims. (Cl. 46—135)

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This invention relates to improvements in a doll's head and appertains particularly to one provided with changeable eyes.

An object of the invention is to provide a doll's head with a plurality of pairs of eyes of various colours and/or characteristics that may be readily selected by a child.

A further object of the invention is to provide a doll's head having two faces with a common eye-changing mechanism serving the eye-openings of both faces.

A further object of the invention is to provide a simplified eye-changing device wherein the actuating shaft extends exteriorly of the doll's head, in the area of the ear, and carries a manually operable wheel.

A still further object of the invention is the provision of a novel and attractive doll's head of the nature and for the purpose described that is characterized by improved and simplified construction and combination of parts and being capable of manufacture at a reasonable price is thereby rendered commercially desirable.

To the accomplishment of these and related objects as shall become apparent as the description proceeds, the invention resides in the construction, combination and arrangement of parts as shall be hereinafter more fully described, illustrated in the accompanying drawings, and pointed out in the claims hereunto appended.

The invention will be best understood and can be more clearly described when reference is had to the drawings forming a part of this disclosure wherein like characters indicate like parts throughout the several views.

In the drawings:

Figure 1 is a vertical section through a doll's head;

Figure 2 is another vertical section, as on the stepped line 2—2 of Figure 1, with the eye-changing mechanism appearing in elevation;

Figure 3 is a schematic view of the series of eye-simulating decorations, carried by the drums of the eye-changing mechanism, opened out into strip form; and

Figure 4 is a side elevation, partly in section, of a modified form of the invention, wherein the eye-openings of a two-faced doll's head are served by a common eye-changing device.

The eye-changing mechanism heretofore employed in doll's heads has been too expensive and unduly complicated, quickly wearing out or becoming damaged under the rough and careless handling accorded it by a child. The instant invention is of sturdy and simplified construction, more suitable for the purpose for which it is intended and assuring a longer useful life.

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Referring particularly to the drawings, the doll's head 1 for purposes of illustration is of the usual hollow, molded pulp variety and has the face 2 thereof provided with a spaced pair of naturally positioned eye openings 3. Transversely of the head is a horizontal shaft 4, rotatably mounted in opposite sides thereof and at substantially the level of or a little below the lower edge of the eye openings 3 and in the area of the ear. Exterior of the head each end of the shaft has a knurled wheel or other manually operable member that is preferably disguised as an ear ornament 5. These members 5 serve also to prevent the displacement of the shaft lengthwise.

Secured to and rotatable with the shaft 4 are a pair of wheels or drums 6, spaced equally with the eye openings 3, and the respective circumferences of which are designed to register with the said openings; said drums bearing on their relatively wide and if desired slightly arced peripheries, a series or sequence of circumferentially spaced decorations 7 representing the whites and iris of eyes and arranged in matching pairs on the spaced drums, these pairs of matching eye-simulating decorations 7 being designed to be brought successively into registry with the eye openings 3 and to be selectively exposed to view therethrough. The matching pairs of iris may be of any desired colours and position and additionally I desire to include one pair of the decorations to simulate the eyes closed in sleep, as 7a, and another with diagonal stripes for the iris as at 7b.

Eight pairs of eye-like decorations are shown in the schematic view of the drum circumferences seen in Figure 3 and to releasably hold the drums in proper rotative positions with these decorations in registry with the eye openings, a substantially octagonal wheel 8 is fastened on the shaft 4 within the head, its flattened circumferential surfaces being engageable by a leaf spring 9 on a pin 10 in a pocket 11 that may be molded integral with the head. One of the wheel's circumferential surfaces may have an arcuate portion as seen at 8a to afford an unstable holding by the spring 9 so that the wheel and its shaft will oscillate slightly, such portion being engaged by the holding spring when the diagonal stripe iris 7b are opposite the eye openings thus providing an entertaining eye performance.

A modified doll's head 15 is shown in Figure

4 that is provided with two, oppositely facing and preferably contrasting faces 16; one of which may be a smiling face 16*a* and the other a crying face 16*b* for example—or one may be of fair complexion and the other dark and so on. Each has a pair of eye openings 17 but they have common ears 18 and a wig 19 that may be attached to the head at the top center as by a pivot 20. Thus by swinging the wig around half way, the desired face is exposed and the other one covered. Running transversely of this two-faced head, mid-way of the faces 16*a* and 16*b* is the eye changing rotatable shaft 21 with a near ear-registering ornament 22 on each exposed end. This shaft carries a pair of changeable eye drums 23, as already described for the previous form and a shaft-holding or rotation-steadying device 24. The drums 23 in this modified form however are of such size and position that, with the shaft 21 located mid-way of the faces 16*a* and 16*b*, they register with and serve both sets of eye openings 17.

Alternatively, the pivot 20 may serve as the rotating shaft for the eye changing mechanism, being extended downwards below the level of the eye openings, as at 20*a*, and carrying on its lower end a single drum 20*b* with spaced eye-simulating decorations on its circumference and designed like the former ones to register with the eye openings.

The attractiveness, to a child, of the two-faced doll affording the choice of very different faces so that it has in effect two dolls, will be apparent, and the unending fascination of the eye selection alone or in addition will be appreciated especially when it is considered that children at the doll-loving age are highly imaginative.

From the foregoing description taken in connection with the accompanying drawings, it will be manifest that a doll's head is provided that will fulfill all the necessary requirements of such a device, but as many changes could be made in the above description and many apparently widely different embodiments of the invention may be constructed within the scope of the appended claims, without departing from the spirit or scope thereof, it is intended that all matter contained in the said accompanying specification and drawings shall be interpreted as illustrative and not in a limitative or restrictive sense.

Having thus described the invention, what is claimed as new is:

1. A hollow doll's head having two oppositely facing faces, a spaced pair of eye openings in each face, a common pair of ears serving both faces, a wig mounted on the head at top center by a pivot and rotatable thereon to serve one face and cover the other, and changeable eye mechanism in said head comprising a transverse rotatable shaft mid-way of the two faces, the ends of which project in the areas of said ears, manually engageable shaft rotating members on said shaft ends simulating ear ornaments and a pair of drums on said shaft with eye-simulating decorations on the circumferences thereof registrable with the eye-openings of both faces.

2. In combination with an attractive doll's head having a spaced pair of eye openings and normally positioned ears, changeable eye mechanism housed in said head and comprising a horizontal transverse shaft whose ends are rotatably supported in opposite sides of said head, an inconspicuous manually engageable wheel-like member simulating an earring on each end of said shaft exterior of said head in the area of the ear, such members also preventing longitudinal displacement of said shaft, and a pair of spaced drums secured on and rotatable with said shaft the peripheries of which bear circumferentially spaced eye simulating matching decorations and register with the respective eye openings in said head, a rotation-stopping device for said shaft comprising cooperating means on said shaft and head releasably engageable in as many different positions as there are eye-simulating decorations on said drums and in one of which positions the shaft is afforded some slight oscillation, said cooperating means consisting of a spring member mounted in said head and a wheel-like member, with flattened circumferential portions, on said shaft, one of such circumferential portions being slightly arcuate.

LOUISE M. G. OLIVIER.

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