No. 834,981. PATENTED NOV. 6, 1906.

J. W. HORNE.

DOLL HEAD.

APPLICATION FILED FEB. 16, 1906.

2 SHEETS—SHEET 1.

Fig. 1.

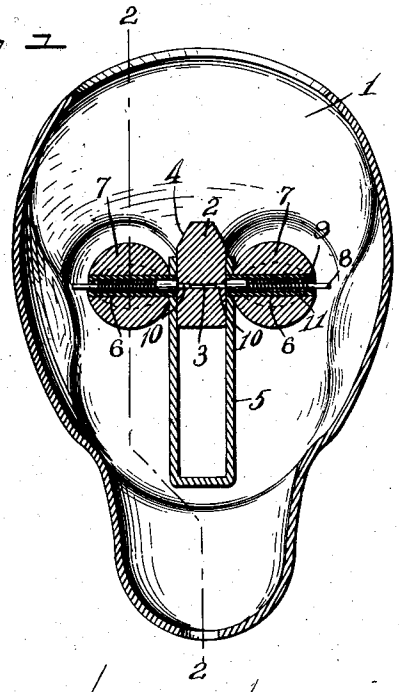


Fig. 3.

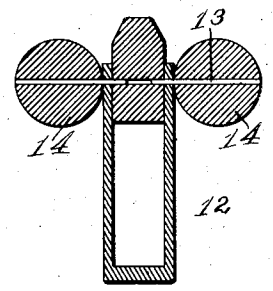
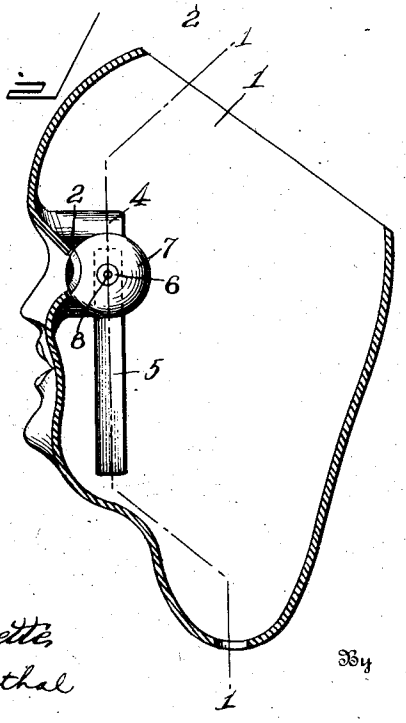


Fig. 2.



Witnesses
H. G. Robinette
F. B. Rosenthal

Inventor
John Wesley Horne.

By
G. Ayres.
Attorney

No. 834,981. PATENTED NOV. 6, 1906.

J. W. HORNE.

DOLL HEAD.

APPLICATION FILED FEB. 16, 1906.

2 SHEETS—SHEET 2.

Fig. 4

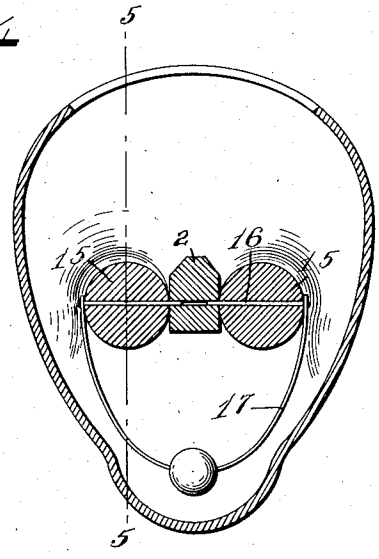


Fig. 6

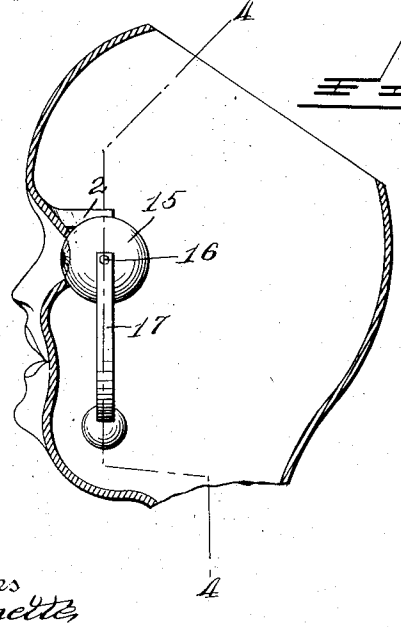
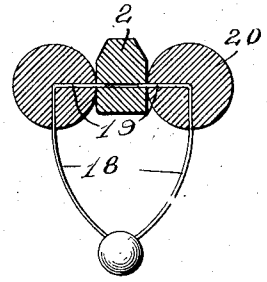


Fig. 5



Witnesses
H. G. Polmeier
F. B. Rosenthal

Inventor
John Wesley Horne.

By G. Ayres.
Attorney

UNITED STATES PATENT OFFICE.

JOHN W. HORNE, OF WASHINGTON, DISTRICT OF COLUMBIA.

DOLL-HEAD.

No. 834,981. Specification of Letters Patent. Patented Nov. 6, 1906.

Application filed February 16, 1906. Serial No. 301,425.

To all whom it may concern:

Be it known that I, JOHN W. HORNE, a citizen of the United States, residing at Washington, District of Columbia, have invented certain new and useful Improvements in Doll-Heads, of which the following is a specification.

My invention relates to improvements in doll-heads; and it consists in the constructions, combinations, and arrangements herein described and claimed.

An object of my invention is to provide improved means for securing the eyes in doll-heads in a durable manner, whereby all danger of accidental displacement of the eyes will be obviated and the eyes prevented from rattling loose through use and wear.

A further object of my invention is to provide a simple and inexpensive means capable of readily and quickly attaching the eyes in a doll-head in a secure and permanent manner.

In the accompanying drawings, forming a part of this application, and in which similar reference-symbols indicate corresponding parts in the several views, Figure 1 is a sectional view on the line 1 1 of Fig. 2, illustrating one embodiment of my invention. Fig. 2 is a sectional view on the line 2 2 of Fig. 1, parts being shown in elevation. Fig. 3 is a detail sectional view illustrating a modification of the construction shown in Fig. 1. Fig. 4 is a sectional view on the line 4 4 of Fig. 5, illustrating a modification of my invention. Fig. 5 is a sectional view on the line 5 5 of Fig. 4, and Fig. 6 is a detail sectional view illustrating a modification of the construction shown in Fig. 4.

Referring especially to Figs. 1 and 2 of the drawings, 1 indicates any usual type of doll-head, formed of bisque, wax, papier-mâché, or other suitable material. The head is shown with a medial support 2, which is preferably formed integral therewith and provided with an aperture or recess 3 and a tapered edge 4.

A gravity-actuated swinging frame 5 of substantially U-shaped form is shown carrying two sleeves 6, on which are secured the doll-eyes 7. A rod 8 is slidably mounted in the outer head 9 of each sleeve 6 and carries a bearing-plunger 10 at a suitable distance from its inner end, a spring 11 being confined between the sleeve-head 9 and plunger 10 for pressing the rods inwardly.

By referring especially to Fig. 1 it will be seen that the above device can be quickly attached to the support 2 by slipping it over the tapered edge 4 thereof until the inner ends of the rods 8 register with the aperture 3 in said support. During such operation the tapered edge 4 engages the inner ends of the rods 8 and automatically forces them outwardly. When the parts have been thus positioned, the springs 11 will force the inner ends of the rods 8 into the aperture 3, and maintain the plungers 10 with a resilient pressure against the sides of the support 2. In this final position of the parts the weight of the eye-carrying frame 5 will cause said frame to swing about the pivot-rods 8 upon movement of the doll-head. During such swing the two legs of the U-shaped frame engage opposite sides of the support 2, and thus constitute guides for preventing any rattling or play of the parts. Further, the spring-pressed plungers 10 are maintained at a sufficient pressure against the sides of the support 2 to prevent the parts becoming loose through wear, these bearing-plungers acting also to produce a desired frictional resistance to the swinging of the frame, thereby causing a more regular and pleasing movement of the eyes.

Fig. 3 illustrates a slight modification, in which a substantially U-shaped frame 12 has secured thereto rods 13, carrying the doll-eyes 14. In this construction the frame 12 is formed of sufficiently resilient material to maintain the two legs thereof in guiding engagement with opposite sides of the support 2.

Figs. 4 and 5 illustrate a further modification in which the doll-eyes 15 are carried by rods 16, secured to the two ends of a weighted flat spring 17. In this construction the spring 17 acts to press the eyes 15 against the medial head-support 2, thus eliminating all lost motion and preventing the parts from becoming loose through wear.

Fig. 6 is a slight modification of the construction shown in Figs. 4 and 5, in which the ends of a weighted spring 18 are bent to constitute pivot-pins 19, the doll-eyes 20 being molded on or otherwise suitably secured to said pins and spring. This constitutes a very simple and durable construction and one which can be very inexpensively constructed of a length of resilient wire.

It will be obvious that many changes and

modifications of the above constructions can be made within the spirit and scope of my invention.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a doll-head, the combination of a frame pivotally supported in said head, eyes carried by said frame, and resilient means for preventing play of said frame on its pivotal support, substantially as described.

2. In a doll-head, the combination of a support carried by said head, a swinging frame constructed to guidingly engage said support, and eyes carried by said frame, substantially as described.

3. In a doll-head, the combination of a support carried by said head, a frame pivoted on said support, means for maintaining said frame in guiding engagement with its support, and eyes carried by said frame, substantially as described.

4. In a doll-head, the combination of a support carried by said head, a frame pivoted on said support, resilient means for maintaining said frame in guiding engagement with its support, and eyes carried by said frame, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN W. HORNE.

Witnesses:

GUSTAV AYRES,

EDWIN S. CLARKSON.