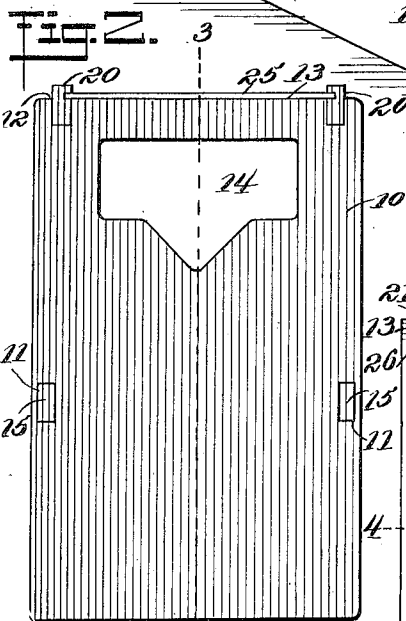
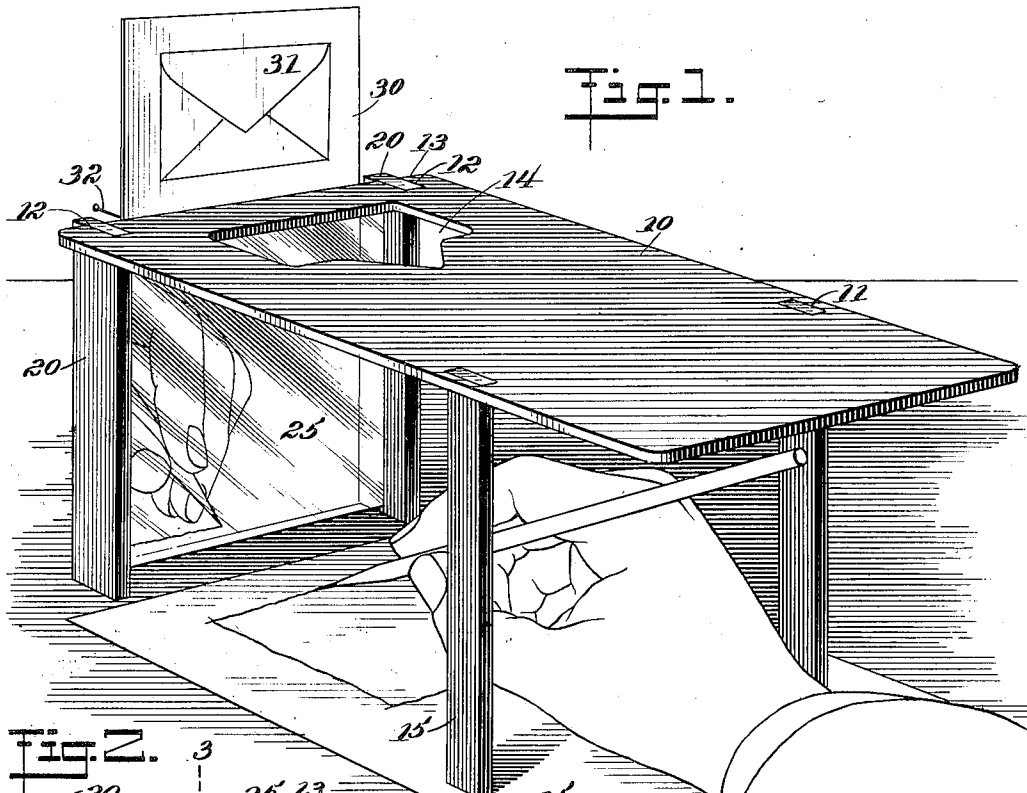


E. P. HOYT.
OPTICAL ILLUSION APPARATUS.
APPLICATION FILED APR. 8, 1909.

942,560.

Patented Dec. 7, 1909.



WITNESSES 3

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Fig. 3.

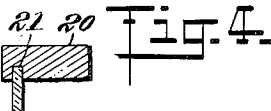
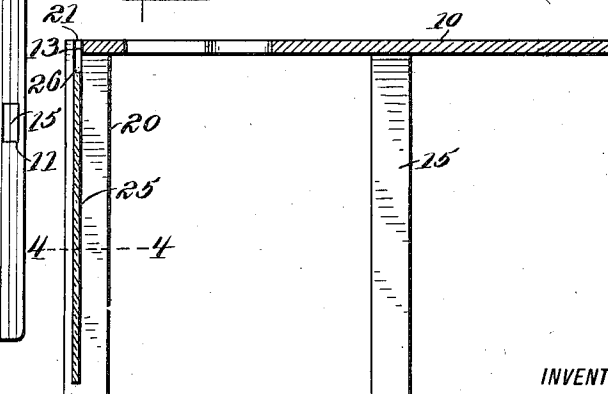


Fig. 4.

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OPTICAL-ILLUSION APPARATUS.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, EDWIN P. HOYT, a citizen of the United States, and a resident of the city of New York, borough of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Optical-Illusion Apparatus, of which the following is a full, clear, and exact specification.

The invention relates to that class of devices in which a mirror is employed, and in connection therewith, an approximately horizontal screen, so positioned relatively to the mirror that it will serve to screen one's hand while writing or drawing on a sheet of paper or pad beneath the screen, the mirror being so positioned that the reflection of the hand and the writing or drawing will be seen. It is well known that with toys or puzzles of this character, it is exceedingly difficult to form a predetermined line or lines with a pencil or pen that is screened from the user and only the reflection appearing in the mirror.

The object of my invention is to provide a device of the general character referred to, of improved construction, comprising a few simple parts which may be readily taken apart and erected, as desired, and which in a knock-down form will be very compact.

The cheapness of construction is also an object I have had in view.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view of a toy or puzzle embodying my invention and showing the same in use; Fig. 2 is a plan view on a reduced scale; Fig. 3 is a longitudinal vertical section on the line 3—3 of Fig. 2; and Fig. 4 is a detail in section on the line 4—4 of Fig. 3.

In carrying out the invention, the screen 10 is preferably in the form of a thin board adapted to be supported in an approximately horizontal position by rear legs 15 and forward legs 20, the legs being detachable. The upper ends of the rear legs 15 are received in suitable openings 11 in the screen 10, while the front legs 20 are received in openings 12. The openings 12 preferably extend to the front edge 13 of the screen 10, as it is desirable that said front

legs be the more readily removed from the screen.

I so form the front legs 20 and so arrange them relatively to the screen, that they serve to properly receive and support a mirror 25. Thus the legs 20, as best seen in Figs. 2 and 3, are formed with vertical grooves 21 which extend from the top of the legs to a point short of the bottom thereof, as clearly shown in Fig. 3, and the mirror is preferably of a height to slip into the grooved legs and lie with its upper edge 26 a slight distance below the front edge 13 of the screen 10. In this way the front edge 13 may be utilized, if desired, for holding a card 30 which may be secured by a pin 32. The card bears any suitable design 31, the simple outline of an envelop being shown in the present instance, as this design is advantageous in presenting diagonal lines between a rectangular figure, the formation of diagonal lines being exceedingly difficult and thus affording much amusement to onlookers witnessing one's efforts to reproduce the design on a sheet of paper 35, for instance, when placed on a suitable surface or table below the screen, as indicated in Fig. 1.

It will be seen that the screen is provided with an opening 14 at a point rearward from the front edge; this opening affords the necessary view of the mirror while screening the paper 35. By producing the opening 14 rearward of the front edge, the necessary strength at the front is provided for the combined sustaining legs and mirror supports 20. In this construction the screen forms the connection between the four legs.

In assembling the parts the mirror is placed in the described grooves in the legs 20, and the said legs and mirror are then placed in position; or, if desired, the legs 20 may be first placed in position and the mirror then inserted therein. In, however, dismembering the structure, it will be convenient to remove the legs 20 and the mirror together.

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

1. The herein-described article, comprising a top constituting a screen and provided with a sight-opening, means for supporting the rear end of the screen and per-

mitting the insertion of one's hand therebeneath, and means independent of the rear supporting means and disposed along the front edge of the screen and depending from said front edge, for supporting the front end of the screen and for supporting also a mirror in a substantially vertical position.

2. In a device of the character described, a board constituting a screen and provided with a sight opening, detachable front and rear legs, and a mirror detachably held in the front legs.

3. In a device of the character described, a board constituting a screen and provided with a sight opening, front and rear detachable legs, and a mirror detachably held in the front legs, the said front legs having in their opposed sides vertical grooves in which the mirror is received.

4. A device of the character described, comprising a horizontal board having a series of openings, and legs adapted to said openings, certain of said openings being at the front and extending through the front edge of the screen, the screen having a sight opening at the front portion, the front legs projecting at their front edges beyond the

front edge of the screen and having means for supporting a mirror thereon.

5. A device of the character described, comprising a horizontal board having a series of openings and legs adapted to said openings, certain of said openings being at the front and extending through the front edge of the screen, the screen having a sight opening adjacent to the front edge and slightly inward therefrom, the front legs projecting at their front edges beyond the front edge of the screen and having means for supporting a mirror thereon, the said means comprising vertical grooves in the opposed faces of the front legs, the grooves terminating short of the bottom ends of the legs, and a mirror fitting said grooves, but of such a height as to cause its top edge to lie below the screen.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

EDWIN P. HOYT.

Witnesses:

J. L. McAULIFFE,
PHILIP D. ROLLHAUS.