Nov. 20, 1923. 1,474,572

O. M. WHITSTOCK

CHANGEABLE PICTURE DEVICE

Filed May 18, 1921

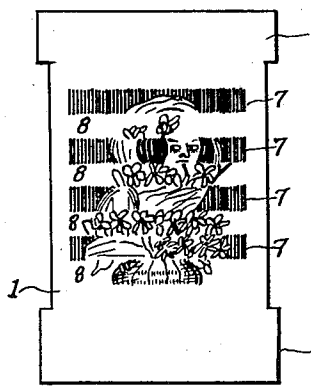


Fig 1.

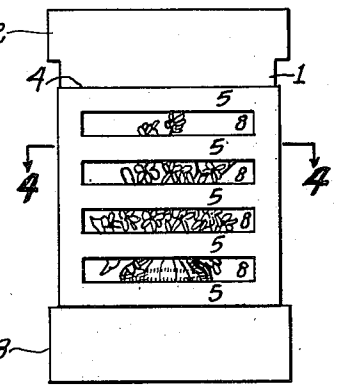


Fig.2.

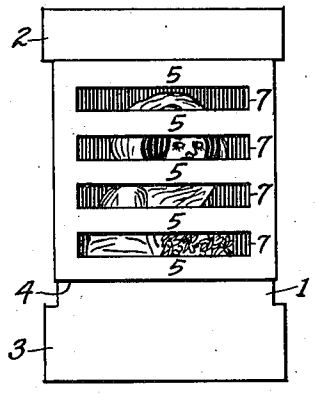


Fig.3.

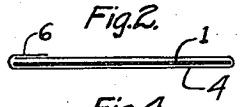


Fig.4.

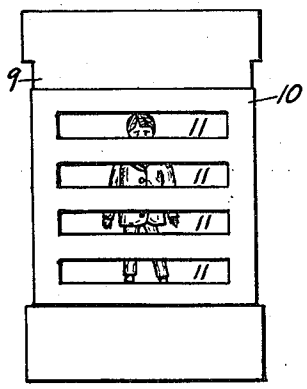


Fig.5.

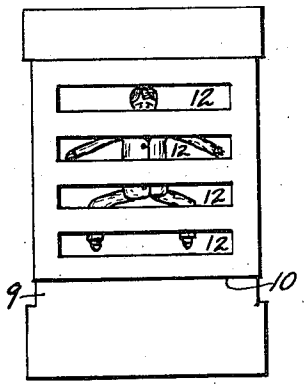


Fig.6.

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UNITED STATES PATENT OFFICE.

OTTO M. WHITSTOCK, OF NEW YORK, N. Y.

CHANGEABLE-PICTURE DEVICE.

Application filed May 18, 1921. Serial No. 470,654.

To all whom it may concern:

Be it known that I, OTTO M. WHITSTOCK, a subject of the King of Great Britain, residing at New York, in the county of New York and State of New York, have invented a Changeable-Picture Device, of which the following is a specification.

My invention relates to a device in which a picture is displayed which can be changed by sliding one part of the device upon the other. Space is provided on the device which can be used for advertising matter in addition to what may be advertised by the pictures. My device is also useful as a toy, a moving picture effect being possible by properly choosing the picture.

Two or more pictures are printed in sections on a surface, alternate sections being composed of the different pictures. A cage is provided which has bars so arranged as to expose at any time the sections of one picture while hiding those of the others. By shifting this cage or the surface holding the pictures, relatively to each other, new pictures are exposed and the others hidden. A moving picture effect is accomplished by choosing two pictures of the same object in different positions, and having sections of these pictures alternate. Shifting the cage or the surface holding the pictures, exposes the object first in one position and then in the other. Due to the lingering impression on the retina of the eye, of the first picture, when the second is exposed, a continuity of motion is experienced.

The construction of my device is simple and very durable, no slits being used in one member through which tongues of the other slide.

I attain these objects by the mechanism illustrated in the accompanying drawing, in which—

Figure 1 shows the composite picture of two objects on a card, Figure 2 shows the cage in such a position as to expose one picture, Figure 3 shows the cage in its other position exposing the other picture, Figure 4 is a section of Figure 2 along the line 4—4, Figure 5 shows one position of the cage in the moving picture type showing the object in one position and Figure 6 shows the object in its second position.

Referring to the drawings:—

The card 1 is provided with an upper flange portion 2 and a lower flange portion 3. Encircling card 1 is the cage 4 provided with bars 5 on its front portion. Cage 4 is preferably made of one piece of material bent around card 1 and having its edges pasted or otherwise fastened together with a lap joint as at 6 (Fig. 4).

Printed or otherwise impressed on the surface of card 1 are two pictures in alternating sections, those marked 7 being of one picture and those marked 8 of the other. The bars 5 are equal in width to sections 7 and 8. Cage 4 is made shorter than the distance between flanges 2 and 3 by an amount equal to the width of a section 7 or 8.

In operation, cage 4 is grasped in one hand and card 1 in the other and the two are slid relatively to each other, exposing picture 8 (Fig. 2) in one position and picture 7 (Fig. 3) in the other.

Referring to Figures 5 and 6, sections 11 represent a picture of a boy on the card 9 in one position and sections 12 represent him as having jumped into the air. By moving cage 10 up and down so as to first expose sections 11 and then sections 12, the boy appears to jump up and down.

Other pictures could have been used than those illustrated above and similar effects in principle would be produced.

Instead of using only one face of the card 1 for pictures, both sides can be used. For example Figures 2 and 3 would be one side and Figures 5 and 6 the other. In this case, cage 4 would have bars formed on both sides.

I claim:—

1. In a device of the character described, a plurality of pieces shiftably connected, one piece having thereon pictorial illustrations of different natures in sections, the sections of one illustration alternating with the sections of the other illustration, said piece having a wider top and bottom portion and a narrower central portion, and a second piece formed with slots and bars whereby either set of sections of a kind may be exposed through said slots presenting a comparatively complete illustration, while the other set of sections of a kind is concealed by said bars, said second piece forming a complete loop about said first piece in its narrower portion and being short enough to permit its sliding, first to expose one illustration and then another.

2. In a device of the character described, a plurality of pieces shiftably connected, one piece having thereon pictorial

illustrations of different natures in sections, the sections of one illustration alternating with the sections of the other illustration, said piece being formed with top and bottom flanges, and a second piece having means whereby one set of sections of a kind may be exposed presenting a comparatively complete illustration, and the other set of sections of a kind is concealed, said second piece being folded about said first piece between said flanges and being short enough to permit its sliding to first expose one illustration and then another.

OTTO M. WHITSTOCK.