Oct. 21, 1947. J. R. WEHR 2,429,335

ANIMATED ILLUSTRATION

Filed Nov. 28, 1944

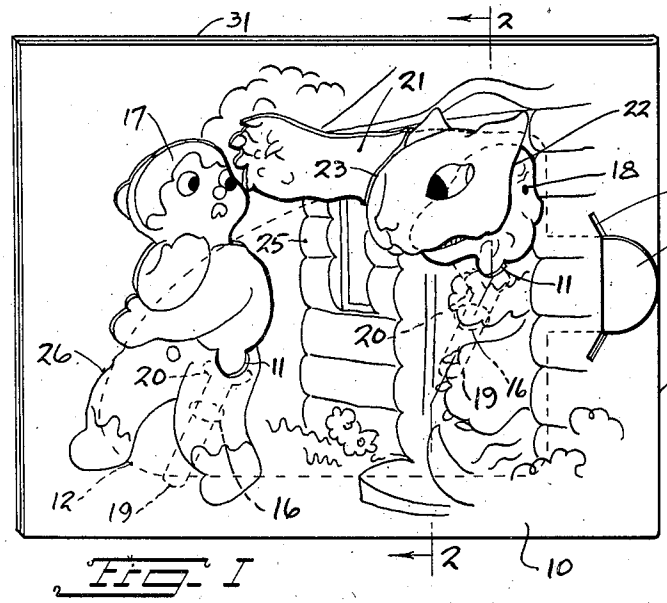


Fig. 1

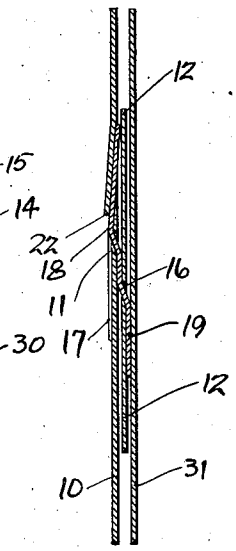


Fig. 2

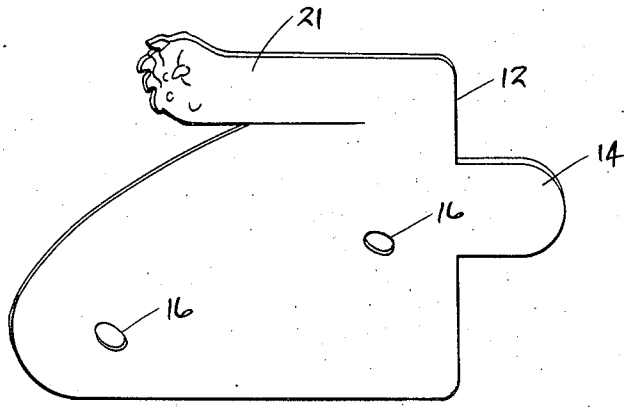


Fig. 3

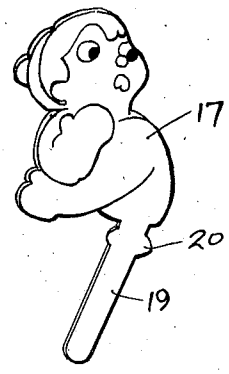


Fig. 4

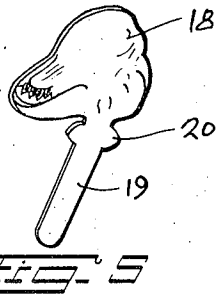


Fig. 5

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ANIMATED ILLUSTRATION

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10 Claims. (Cl. 46—34)

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This invention relates to new and useful improvements in animated illustrations, and particularly represents an improvement over my United States Letters Patent No. 2,192,763, granted March 5, 1940.

In my prior invention, the illustrated pieces which moved upon the illustrated front sheet were activated by a back sheet rocker member. In the present invention, it is proposed that the illustrated pieces be actuated by a back sheet which is capable of sliding for producing a motion to move the illustrated pieces, and which is also capable of simultaneously sliding and pivoting. With this new arrangement I increase the paths of possible movement of the illustrated pieces and so enhance the attractiveness of the animated illustration.

Still further the invention proposes a new and improved animated illustration, substantially as described, which may be manufactured at low cost and which is particularly adapted to be made up in, or with a popular priced book.

For further comprehension of the invention, and of the objects and advantages thereof, references will be had to the following description and accompanying drawing, and to the appended claims in which the various novel features of the invention are more particularly set forth.

In the accompanying drawing forming a material part of this disclosure:

Fig. 1 is a perspective view of an animated illustration constructed in accordance with this invention.

Fig. 2 is a vertical sectional view taken on the line 2—2 of Fig. 1.

Fig. 3 is a perspective view of the back sheet.

Fig. 4 is a perspective view of one of the illustrated pieces shown in Fig. 1.

Fig. 5 is a perspective view of another one of the illustrated pieces.

The animated illustration, in accordance with this invention, includes an illustrated front sheet 10 having several small front openings 11. A back sheet 12 is slidably mounted behind said front sheet 10 and is formed with a tab 14 which projects through a slot 15 formed in the front sheet 10, and by which the back sheet 12 may be moved. The back sheet 12 is formed with several small back openings 16 which are offset from the front openings 11. Illustrated pieces 17 and 18 are arranged upon said front sheet 10 and are provided with stems 19 which engage through the said openings 11 and 16. The stems 19 have enlargements 20 directly behind the said front small openings 11 by which the illustrated pieces 17 and 18 are pivotally mounted on said front sheet.

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The back sheet 12 is slidably mounted upon the back of the front sheet 10 by a strip-like portion 21 which engages through a complementary opening 23 formed in the front sheet 10.

The slot 15 is of a greater width than the width of the tab 14 which permits the back sheet 10 to be rocked, or pivoted as well as to be moved slidably inwards and outwards. When the back sheet 12 is pivoted, the strip portion 21, engaging against the top or bottom end of the opening 23 will act as a pivot for guiding the pivoting of the back sheet 12.

For illustrative purposes the front sheet 10 is provided with an illustration of a house 25 with an animal coming out of the door of the house. A small boy 26 is illustrated to the front of the house. The strip portion 21 is illustrated to represent a paw of the animal. The moving piece 18 is illustrated to represent the jaw of the animal and it partially projects through a slot 22 formed in the front sheet 10. When this piece 18 moves it will give the impression that the animal is opening and closing its mouth. The illustrated piece 17 represents the boy 26 from the waist upwards.

The back sheet 12 is much wider than the width of the slot 15 so as to limit motion of the back sheet 12 when the tab 14 is pulled outwards. Preferably, the slot 15 is arcuate to facilitate moving the tab 14 in an arcuate direction.

The front sheet 10 may represent the page of a book. For this reason it is formed from a sheet of material which is bent at the side 30 so that there is a back section 31 extending across and covering the back sheet 12 and the stems 19.

The operation of the new and improved animated illustration is as follows:

The tab 14 may be pulled outwards and pushed inwards substantially on a horizontal line so as to pivot the stems 19 and rock the illustrated pieces 17 and 18. The relative motion of the illustrated pieces 17 and 18 may be varied by rocking the tab 14 in any of its extended or retracted positions. The back sheet 12 will rock about the bottom end of the opening 23, or about the top end of said opening. There is sufficient play to permit this rocking. Because the openings 11 and 16 are arranged on opposite sides to and at different radial distances from the point of rocking of the back sheet 12, the motion imparted to the illustrated pieces 17 and 18 will be varied. For example, we may obtain a motion in which the jaw 18 barely moves but simulta-

neously, the illustrated piece 17 moves through a relatively large arc. Moreover, the paw 21 may be made to reach downwards or upwards, in addition to being moved inwards and outwards.

While I have illustrated and described the preferred embodiments of my invention, it is to be understood that I do not limit myself to the precise construction herein disclosed and the right is reserved to all changes and modifications coming within the scope of the invention as defined in the appended claims.

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

1. An animated illustration, comprising an illustrated front sheet having a small front opening at one point, a back sheet slidably mounted in back of said front sheet and having a tab by which it may be moved projecting through a slot in said front sheet, and furthermore having a small back opening offset from said small front opening, and an illustrated piece on said front sheet and having a stem engaging through said small openings and said stem having an enlargement behind said front small opening for pivotally mounting said illustrated piece on said front sheet, whereby said back sheet may be moved for moving said illustrated piece.

2. An animated illustration, comprising an illustrated front sheet having a small front opening at one point, a back sheet slidably mounted in back of said front sheet and having a tab by which it may be moved projecting through a slot in said front sheet, and furthermore having a small back opening offset from said small front opening, and an illustrated piece on said front sheet and having a stem engaging through said small openings and said stem having an enlargement behind said front small opening for pivotally mounting said illustrated piece on said front sheet, whereby said back sheet may be moved for moving said illustrated piece, said back sheet having a strip portion engaging through an opening in said front sheet by which it is slidably mounted.

3. An animated illustration, comprising an illustrated front sheet having a small front opening at one point, a back sheet slidably mounted in back of said front sheet and having a tab by which it may be moved projecting through a slot in said front sheet, and furthermore having a small back opening offset from said small front opening, and an illustrated piece on said front sheet and having a stem engaging through said small openings and said stem having an enlargement behind said front small opening for pivotally mounting said illustrated piece on said front sheet, whereby said back sheet may be moved for moving said illustrated piece, said back sheet having a strip portion engaging through an opening in said front sheet by which it is slidably mounted, and said slot for said tab being wider than the tab, whereby said back sheet may be rocked about points along said strip portion as pivots.

4. An animated illustration, comprising an illustrated front sheet having several small front openings, a back sheet slidably mounted in back of said front sheet and having a tab by which it may be moved projecting through a slot in said front sheet and furthermore having several small back openings offset from said small front openings, and illustrated pieces on said front sheet and having stems engaging through said small openings and said stems having enlargements behind said front small openings for pivotally mounting said illustrated pieces on said front

sheet, whereby said back sheet may be moved for moving said illustrated pieces.

5. An animated illustration, comprising an illustrated front sheet having several small front openings, a back sheet slidably mounted in back of said front sheet and having a tab by which it may be moved projecting through a slot in said front sheet and furthermore having several small back openings offset from said small front openings, and illustrated pieces on said front sheet and having stems engaging through said small openings and said stems having enlargements behind said front small openings for pivotally mounting said illustrated pieces on said front sheet, whereby said back sheet may be moved for opening said illustrated pieces, said back sheet having a strip portion slidably engaging through an opening in said front sheet by which it is slidably mounted.

6. An animated illustration, comprising an illustrated front sheet having several small front openings, a back sheet slidably mounted in back of said front sheet and having a tab by which it may be moved projecting through a slot in said front sheet and furthermore having several small back openings offset from said small front openings, and illustrated pieces on said front sheet and having stems engaging through said small openings and said stems having enlargements behind said front small openings for pivotally mounting said illustrated pieces on said front sheet, whereby said back sheet may be moved for moving said illustrated piece, said back sheet having a strip portion slidably engaging through an opening in said front sheet by which it is slidably mounted, and said slot for said tab being wider than the tab making it possible to rock said back sheet as well as to slide it.

7. An animated illustration, comprising an illustrated front sheet having several small front openings, a back sheet slidably mounted in back of said front sheet and having a tab by which it may be moved projecting through a slot in said front sheet and furthermore having several small back openings offset from said small front openings, and illustrated pieces on said front sheet and having stems engaging through said small openings and said stems having enlargements behind said front small openings for pivotally mounting said illustrated pieces on said front sheet, whereby said back sheet may be moved for moving said illustrated pieces, said back sheet having a strip portion slidably engaging through an opening in said front sheet by which it is slidably mounted, and said slot for said tab being wider than the tab making it possible to rock said back sheet as well as to slide it, and said back sheet being wider than said slot to limit extension of said tab.

8. An animation including a sheet having a plurality of openings therein, a primary member having a figure extending through one of said openings positioning said primary member for lateral movement with respect to said sheet, a secondary member having a figure partially disposed on the outside of said sheet, said secondary member having an arm extending through an opening in said sheet engaging the primary member, and means on one of said members for operating said animation.

9. An animation including a sheet having a plurality of openings therein, a primary member having a figure extending through one of said openings positioning said primary member for sliding movement with respect to said sheet, a secondary member having a figure disposed on

the outside of said sheet, said secondary member having an arm extending through an opening in said sheet engaging said primary member, and means on one of said members for operating said animation.

10. An animation including a sheet having a plurality of openings therein, a primary member having portions extending through said openings positioning said primary member for face to face

sliding movement with respect to said sheet, and a secondary member having a figure on the outside of said sheet and also having an arm pivoted through an opening in said sheet and slidably engaging said primary member, and said primary member being movable by at least one of said portions for operating the animation.

JULIAN R. WEHR.