

March 5, 1929.

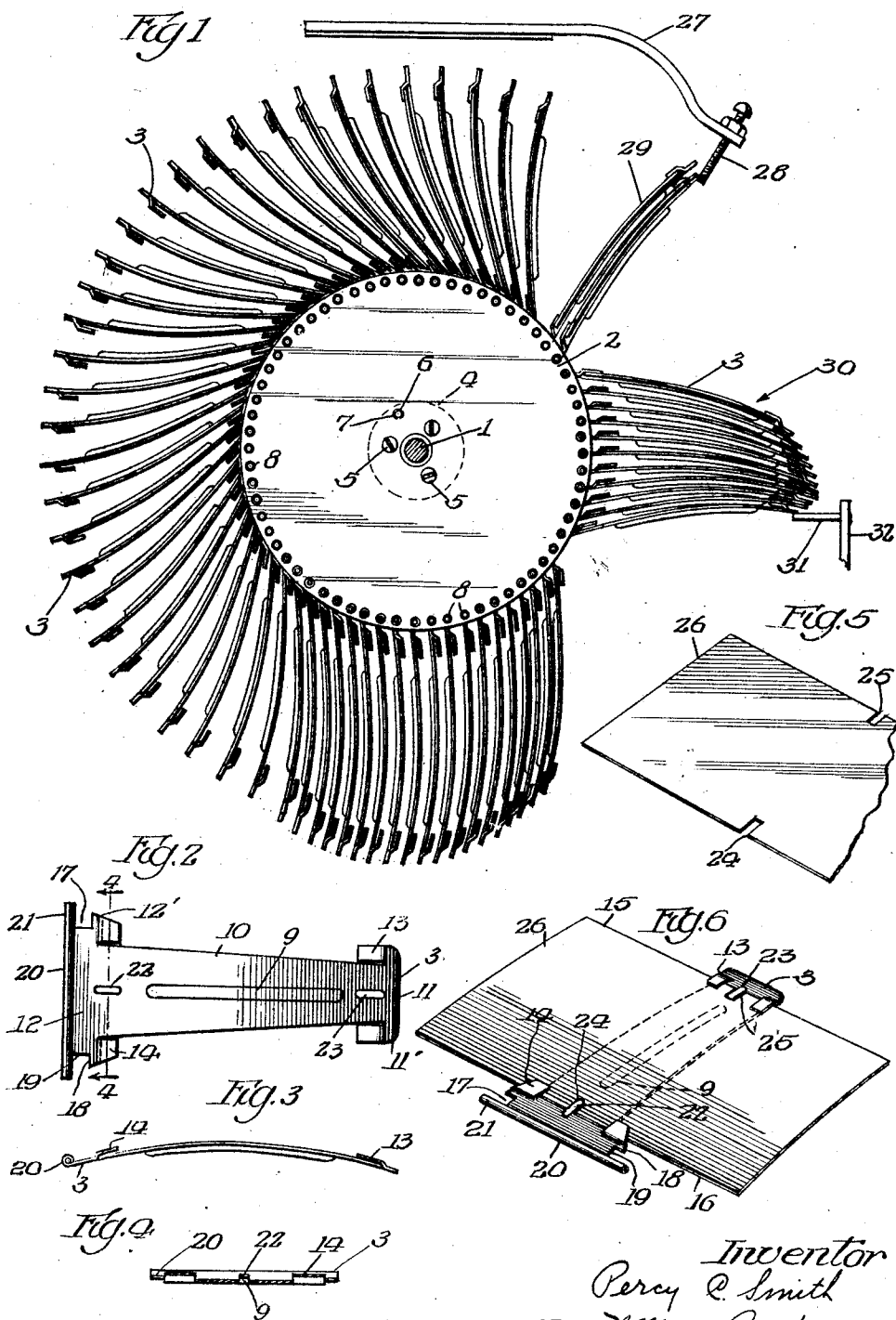
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STEREOSCOPIC EXHIBITING MACHINE REEL

Filed Aug. 29, 1927

2 Sheets-Sheet 1



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2 Sheets-Sheet 2

Fig. 7.

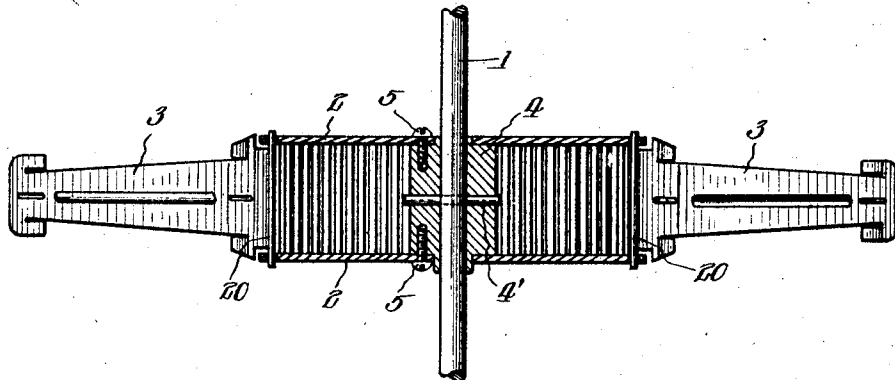


Fig. 8.

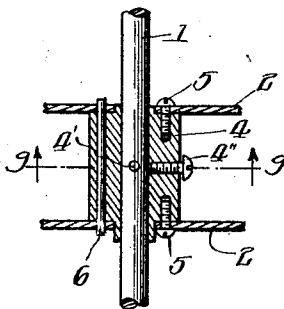
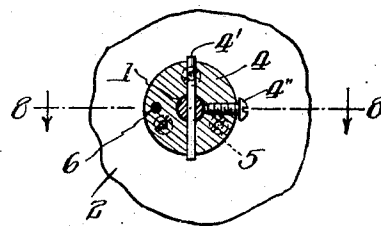


Fig. 9.



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STEREOSCOPIC-EXHIBITING-MACHINE REEL.

Application filed August 29, 1927. Serial No. 216,013.

This invention relates to reels for stereoscopic exhibiting machines and particularly, though not exclusively, to that type of exhibiting machine which is operated by coins whereby the photographic cards are brought to proper sight position; and to improvements in the reel holders or leaves; and also to the method of mounting the cards in the reel holders.

10 The object of the invention is to provide a novel and improved reel for positively bringing the cards to proper sight position and in proper sequence, whereby the operator or customer is provided with a better and more realistic presentation than can be obtained in the ordinary machine.

Another object of the invention is to provide curved holders or leaves for holding the cards so that the card when inserted in the holder will also be curved thereby keeping the card in a rigid condition and preventing the edges or any other part of the card from curling or bending out of shape.

Another object is to provide a reel in which the holders or arms are provided with improved card holding means so that the cards can be easily and quickly applied or detached and which will firmly hold the card in operative position on the holder.

And a further object is to provide a notched card which is adapted to be easily mounted in the holders and held in operative position and which will prevent the card from shifting its position so that each card is always maintained in proper position.

The accompanying drawings show a selected embodiment of the invention and the views therein are as follows:

Fig. 1 is an elevation of my improved reel showing the manner in which the holders are arranged and the various positions the holders attain during the operation of the machine.

Fig. 2 is a top plan view of one of the holders.

Fig. 3 is a side view thereof.

Fig. 4 is a sectional view on the line 4—4 of Fig. 2.

Fig. 5 is a detail perspective view of a

card which is employed for use in my device.

Fig. 6 is a perspective view of a card inserted in one of the holders.

Fig. 7 is a horizontal sectional view taken through the shaft of the reel shown in Fig. 1.

Fig. 8 is a detail section on line 8—8 of Fig. 9, and

Fig. 9 is a detail section on line 9—9 of Fig. 8.

Referring to the drawings 1 designates an axle, carrying the plates 2 to which the card holders 3 are pivotally attached.

The axle 1 has fixed thereon by means of pin 4' and screw 4'' a bushing 4 to which a pair of plates 2 are fixed in any suitable manner such as by screws 5 passing through the plates and threadedly engaging the bushing.

Pins 6 project outwardly from the sides of the bushing to engage holes 7 provided in the plates, as shown in Figs. 7 and 8. This provides that each plate is in proper axial alinement so that the circumferential apertures 8 in one plate will aline with those in the other plate.

The holders 3 are curved or bowed, as shown in Fig. 3, and have a depression to provide a rib 9 in the body portion 10 to strengthen the holder and add rigidity thereto. The outer end 11 and the inner or pivot end 12 of the body have lateral projections 11', 12', from which the ears 13 and 14 are struck up to engage the bottom 15 and top 16 of the card.

At the pivot end of the holder and beyond the ears 14 the projections 12' are cut away at 17 to provide shoulders 18. The extreme inner end of the holder is beaded to provide a pivot member 20 whose ends project beyond the edges 19 and engage apertures 8 in the plates. One end 21 of the pivot member is slightly longer than its opposite end to assist in placing the holders in the plates. The cutaway portion 17 allows free movement of the holder in the plate and prevents any binding between the plate and the edges of the holder, and the shoulders 18 rest upon or abut the outer periphery of the

plates so that the holders are spaced from each other. When the holders attain vertical position, as shown in Fig. 1, only one holder at a time will fall during rotation of the reel.

The holder is also provided with a pair of protuberances 22 and 23 which engage the notches 24 and 25 of the card 26. This provision maintains the card in proper position and prevents lateral shifting of the card, while the ears 13 and 14 into which the bottom and top of the card fit prevent inward or outward movement of the card.

An arm 27 projecting from the upper part of the machine carries a threaded member 28 against which a plurality of holders rest during revolution of the reel and which will fall therefrom one at a time at regular spaced intervals during continued rotation of the reel. By holding and releasing the holders in this way it is assured that only one holder at a time will fall, from what I will term feeding position 29, to sight position 30 where holders are held with the card inserted therein to be viewed by the operator.

A pin 31 projecting inwardly from a post 32 fastened to the bottom of the machine is adapted to hold a plurality of holders whereby the uppermost card is held in proper sight position. As the reel revolves the angle of the holders in relation to the horizontal axis of the reel becomes less or sharper and the lowermost holder or the one which rests on the pin will drop therefrom. This arrangement provides that the card which is being viewed will remain in proper focus until a subsequent holder carrying the next card of the series falls into sight position. While the lowermost holder in each position may not drop simultaneously they will each drop intermittently in certain spaced time relation to each other.

In my other application filed concurrently herewith I have constructed a machine which is adapted to show five different series of picture cards during one complete revolution of the reel; each series showing thirteen different views. It is to be understood, however, that the reel and the mechanism controlling it may be made of any size desired and equipped to show a greater or less number of series or it may show only one continuous series of cards during the complete revolution of the wheel.

Changes may be made in the form, construction and arrangement of the parts of the invention without departing from the spirit or sacrificing any of the advantages thereof and I reserve the right to make all such changes as fairly fall within the scope of the following claims:

I claim:

1. A holder for an exhibiting machine reel comprising a body, means on said body for

holding a card, and protuberances struck up from said body to engage notches on the top and bottom of a card.

2. A holder for an exhibiting machine reel comprising a curved body, centrally disposed protuberances arranged longitudinally of the body and adapted to engage notches formed in the center at the top and bottom of the card, and means for securing the card on the body.

3. A holder for an exhibiting machine reel comprising a curved body, centrally disposed protuberances arranged longitudinally of the body and adapted to engage notches formed in the center at the top and bottom of the card, means for securing the card on the body and a pivot member on the end of the body for mounting the holder in the reel.

4. A reel provided with a plurality of holders comprising a body, lateral projections on said body, ears on said projections to engage the top and bottom of a card, and protuberances on said body and adapted to engage notches on said card.

5. A holder for an exhibiting machine reel comprising a body, a pivot member on said body, lateral projections on said body to provide ears for holding a card, protuberances on said body to engage notches in said card, and a longitudinal rib formed in the body to strengthen the same.

6. A holder for an exhibiting machine reel comprising a body, a pivot member comprising a bead on the end of said body, lateral projections on said body to provide ears for holding a card, protuberances on said body to engage notches in said card, and a longitudinal rib formed in the body to strengthen the same.

7. A reel comprising an axle, a bushing fixed to said axle, plates fixed to said bushing and having a plurality of apertures therein, a plurality of holders or leaves having lateral pivot members to engage said apertures, and a plurality of projections on the top and bottom of the body of the holder for holding the card between the projections and the body of the holder.

8. A reel comprising an axle, a bushing fixed to said axle, plates fixed to said bushing and having a plurality of apertures therein, a plurality of holders or leaves having lateral pivot members to engage said apertures, and a pin projecting on each side of said bushing and engaging an aperture in each of said plates for keeping said first named apertures in proper alinement.

9. A reel for exhibiting machines comprising an axle, a bushing on said axle, circular plates having circumferentially arranged apertures fixed to said bushing, holders pivotally engaging said apertures, shoulders on said holders and free to abut the periphery of said plates to keep the plates in proper position, and means on body of said holders for

receiving a card between the holder body and said means.

10. In combination with a card having oppositely and centrally disposed notches arranged in the top and bottom edges thereof, a holder adapted to pivotally engage a reel and comprising a curved body, protuberances on said body to engage the notches of said card, and a plurality of projections on the top and bottom of the body of said holders for receiving said card.

11. In combination with a card having oppositely and centrally disposed notches arranged in the top and bottom edges thereof, a holder adapted to pivotally engage a reel and comprising a curved body, protuberances on said body to engage the notches of said card, and ears struck up from said body and near its inner and outer ends with which the card is engaged.

12. A reel for exhibiting machines comprising an axle, a bushing on said axle, circular plates having circumferentially arranged apertures fixed to said bushing, curved holders pivotally engaging said apertures, shoulders on said holders and free to abut the periphery of said plates to keep the plates in proper position, protuberances on said body and adapted to engage a card, oppositely disposed ears struck up from said body to engage said card on the top and bottom edges thereof.

13. A reel for exhibiting machines com-

prising an axle, a bushing on said axle, circular plates having circumferentially arranged apertures fixed to said bushing, curved holders pivotally engaging said apertures, shoulders on said holders and free to abut the periphery of said plates to keep the plates in proper position, protuberances on said body and adapted to engage a card, oppositely disposed ears struck up from said body to engage said card on the top and bottom edges thereof, and means separating the holders for feeding the holders one at a time to sight position.

14. A reel for exhibiting machines comprising an axle, a bushing on said axle, circular plates having circumferentially arranged apertures fixed to said bushing, curved holders pivotally engaging said apertures, shoulders on said holders and free to abut the periphery of said plates to keep the plates in proper position, protuberances on said body and adapted to engage a card, oppositely disposed ears struck up from said body to engage said card on the top and bottom edges thereof, means separating the holders for feeding the holders one at a time to sight position, and means for holding a plurality of holders to maintain the last fed holder bearing the card in sight position and for releasing the last held holder when another holder is fed to sight position.

PERCY C. SMITH.