Sept. 15, 1942. L. C. HOLMES 2,295,845

PHOTOGRAPHIC FILM ROLL

Filed Oct. 17, 1939

Fig. 1.

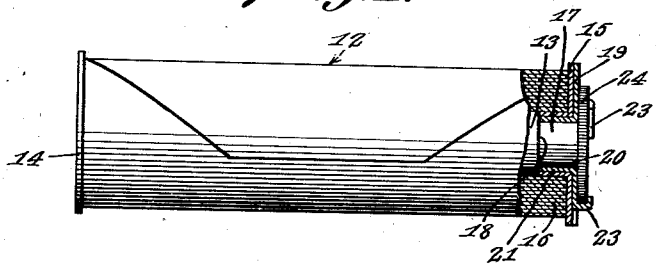


Fig. 2.

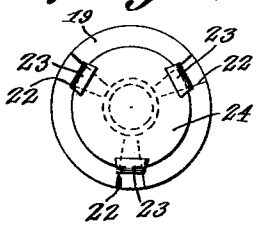


Fig. 3.

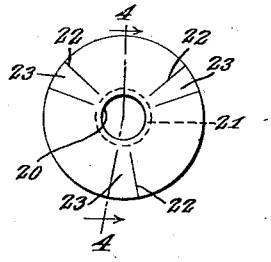


Fig. 4.

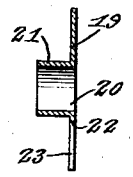


Fig. 9.

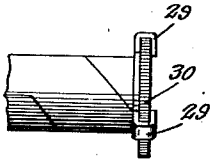


Fig. 5.

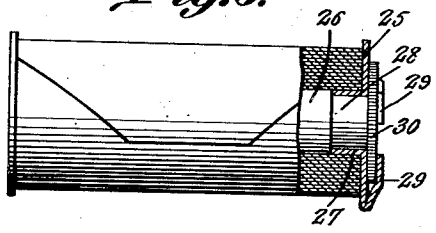


Fig. 10.

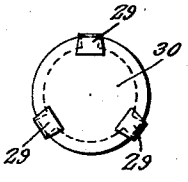


Fig. 6.

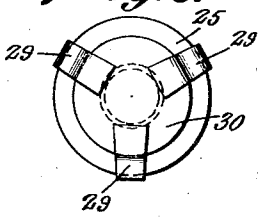


Fig. 7.

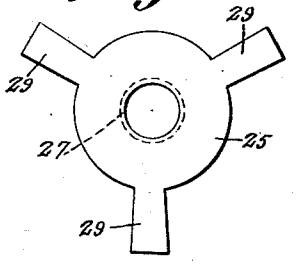
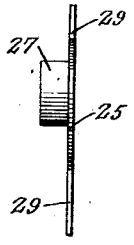


Fig. 8.



Lincoln C. Holmes, INVENTOR

BY Victor J. Evans & Co.

ATTORNEYS

Patented Sept. 15, 1942 2,295,845

UNITED STATES PATENT OFFICE

2,295,845

PHOTOGRAPHIC FILM ROLL

Lincoln C. Holmes, Clear Lake, Wis.

Application October 17, 1939, Serial No. 299,909

3 Claims. (Cl. 206—59)

The present invention relates to improvements in photographic film rolls.

The primary object of the invention is to provide a film roll embodying means for holding a coin on the end of the roll. In certain localities it is necessary to mail the film to a distant point for development and the same is usually accompanied by a cash remittance to cover the cost of the development. The present practice is to place one or more coins of the proper denomination in the package containing the exposed films and since the money is usually loosely wrapped there is present the possibility of it being lost. By means of the present invention the coin is attached directly to the film roll and may be easily removed prior to developing the film.

A further object of the invention is to provide a coin holder for the end of photographic film rolls that may be substituted for the conventional end flange forming a part of the roll.

The invention will be fully and comprehensively understood from a consideration of the following detailed description when read in connection with the accompanying drawing which forms a part of the application.

In the drawing:

Figure 1 is an elevational view of a film roll, partly in section, showing one form of the invention in use.

Figure 2 is an end elevational view thereof.

Figure 3 is an end elevational view of the coin retaining flange prior to attaching a coin thereto.

Figure 4 is a sectional view taken substantially on line 4—4 of Figure 3.

Figure 5 is an elevational view, partly in section, of a modified form of the invention.

Figure 6 is an end elevational view of the form of the invention shown in Figure 5.

Figure 7 is a plan view of the disk shown in Figures 5 and 6.

Figure 8 is a side elevational view thereof.

Figures 9 and 10 are views illustrating the use of the invention with a coin that is larger in diameter than the end of the roll.

Referring to Figures 1 to 4 inclusive, of the drawing, 12 generally designates a photographic film roll embodying a spindle 13 on which the film is wound. At each end the spindle 13 is reduced in diameter to form an end portion 17, the reduction at the ends of the spindle providing an annular shoulder 18.

The reduced end portions of the spindle are adapted to carry thereon a pair of end flanges 14 and 15 respectively. The flange member 15 is in the form of an annular disk having a center aperture and an annular collar extending axially from the edge of the said opening.

On at least one end of the roll spindle is mounted a holder member embodying a disk-shaped portion 19 formed with a central round opening 20. At the edge of the opening 20 is formed an annular collar 21 extending axially from one side of the disk portion. This disk portion is provided with a plurality of radial slits 22 extending from the outer edge to a point short of the center opening and arranged so that pairs of these slits define relatively narrow tapered segmental portions at circumferentially spaced intervals of the disk to form bendable article engaging fingers.

In the assembly of the device the collar 21 is initially fitted in concentric arrangement within the collar of the flange member 15 so that the flange is disposed face to face with the disk shaped portion 19 of the holder member with the peripheral edges of the flange 15 and the disk in approximately flush relation. The inner end of the collars of the respective flange and holder members are also advantageously in flush arrangement when these members are thus assembled. These assembled end members are then fitted on the reduced end portion of the spindle 13 by sliding the inner collar 21 on the reduced end portion 17 so that the inner ends of the collars will abut the shoulder 18 while the outer face of the disk 19 is approximately flush with the outer end of the spindle. The collars of the respective flange and disk members may also be of a thickness wherein the exterior diameter of the outer collar will correspond to the greater diameter of the spindle.

In the use of the device, as shown at Figure 1, after the roll of films 16 has been exposed and it is desired to have the same developed, a coin 24 will be placed against the disk 19 and the fingers 23 bent over the edge of the coin in the manner shown in Figure 2 of the drawing. The coin will then be firmly attached to the end of the roll of film and can be safely mailed with the roll for development of the same. The person developing the roll of film will, of course, discard the disk with the spindle.

In the form of the invention shown in Figures 5 to 10 inclusive, a disk 25 will be substituted for one of the flanges on one end of the spindle 26, the same being formed with a collar 27 engageable over the reduced end 28 of said spindle as more clearly shown in Figure 5 of the drawing. The disk 25 is formed with radially extending fingers 29 adapted to be bent over a coin 30 when

desiring to attach a coin to the end of the film roll. The disk **25** is preferably used with smaller film rolls and is to be sold as a part of the roll in which case the fingers **29** will be folded down lightly against the outer face of the disk and when the film has been entirely exposed the fingers will be bent upwardly for receiving the coin **30** and then folded back against the coin to hold the same tightly against the end of the roll. The fingers **29** will not interfere with the normal reeling and unreeling of the film roll but will function the same as the conventional flange for which the disk **25** has been substituted.

The disk **25** is of a relatively light weight material and the fingers **29** sufficiently flexible to be readily bent into engagement with the coin for holding the same securely attached to the end of the roll.

As shown in Figures 9 and 10 of the drawing the disk **25** can be effectively used for holding a coin that is relatively larger in diameter than the diameter of said disk. Certain types of film rolls are very small and when the disk **25** is used with the smaller type roll, the radial fingers **29** are sufficiently long to firmly retain the coin in position when bent thereover. A comparison of Figures 6 and 10 will readily indicate this fact.

Also it will be understood, of course, by those skilled in the art that variations in the hereinabove described device involving the substitution of substantial equivalents for the devices described are intended to be comprehended within the spirit of the present invention and that the invention is capable of extended application and is not confined to the exact showing of the drawing nor to the precise construction described and, therefore, such changes and modifications may be made therein as do not affect the spirit of the invention nor exceed the scope thereof as expressed in the appended claims.

What is claimed is:

1. In a photographic film roll having a spindle, a disk shaped member having an opening therein, an annular collar projecting laterally of the disk from the edge of the center opening, the said collar being slidably fitted on an end of the spindle and the disk disposed transversely at one end thereof, and a plurality of bendable fingers formed integral with the disk member adapted to be bent into clamping engagement with a coin for holding the said coin flat against the outer face of the disk member.

2. In a photographic film roll, a spindle having a reduced portion at one end thereof, a disk having a circular opening at the center thereof, a collar formed integral with the edge of the said disk and extending axially therefrom, the said collar being slidably fitted on the reduced end portion of the spindle and the disk disposed transversely at the end thereof, and a plurality of radial bendable portions formed integral with the disk adapted to be bent over the edge portion of a coin to attach the coin in face to face relation with the outer face of the disk.

3. In a photographic film roll, a spindle having a reduced portion at one end thereof, a disk having a central opening, a collar projecting axially from the edge of the said opening, an annular flange fitted against the inner face of the said disk, a collar formed at the inner edge of the said flange and fitted concentrically about the collar of the disk, the said disk collar being slidably fitted on the reduced end portion of the spindle, and a plurality of bendable finger portions formed integral with the disk adapted for bending to engage the edge portion of a flat circular article to clamp the said article against the outer face of the disk.

LINCOLN C. HOLMES.