

## PATENT SPECIFICATION



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### COMPLETE SPECIFICATION

#### Improvements in Daylight-Packages for Unperforated Roll Film for Photographic Apparatus

We, VALSTS ELEKTROTECHNISKA FABRIKA, a State Company of Latvia, incorporated under the Laws of Latvia, of Brivibas gatve 19, Rigar, Latvia, do hereby  
 5 declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

10 The present invention relates to packages for roll film, for daylight loading of cameras, and refers to film packages of the kind comprising two interconnected cases, one of these cases containing the unexposed film and the other containing a roller to which the outer end of the film roll is attached and on to which the exposed film is wound.

20 Packages of this type intended more particularly for cinematograph films have previously been suggested in which the cases are interconnected by articulated plates or arms to permit the distance between the cases to be varied, the articulated plates or arms bridging one or both  
 25 pairs of corresponding ends of the cases and lying in a plane or planes lengthwise of and perpendicular to the portion of the film which extends between the cases.

30 Other packages have been proposed in which the two cases are connected together by two plates or flanges perpendicular to the plane of the film, and by a flat extension of the wall of one casing  
 35 extending in a plane parallel to that of the film and pierced by an opening, preferably of the same size as one film picture, through which the exposure is made.

40 The present invention is more particularly concerned with light tight packages for unperforated roll film for use in photographic cameras of the vest pocket size.

45 An object of the present invention is to avoid or reduce the liability of scratching of the film during its travel from one case of the package to the other.

50 Another object is to facilitate the insertion of the film package in, and its withdrawal from the camera, by providing an interconnecting element for the cases of such character that it can be used as a handle.

In the film package according to the present invention, the two cases are spaced  
 55 apart from each other at a fixed distance corresponding substantially to the length of a picture, solely by a single interconnecting piece of rigid and invariable character, which bridges two corresponding  
 60 ends of the cases and lies in a plane extending lengthwise of and perpendicular to that portion of the film which extends between the two cases, so that said portion of the film is left free on both  
 65 sides.

One example of a package according to the invention is illustrated by the accompanying drawing, in which:—

70 Figure 1 is a perspective view of the package, and

Figure 2 is a longitudinal section of the same package.

The package comprises two cases 1 and 2 and an intermediate piece in the form of a single plate 3 rigidly interconnecting  
 75 the two cases 1 and 2 so as to bridge them at one end thereof and lying flush with said bridged ends of said cases 1 and 2. In the example illustrated, the plate 3  
 80 has the cup-like parts 1', 2' of the cases integrally formed therewith. The two cases 1 and 2 lie at a distance from each other substantially corresponding to the length of a picture. The case 1 contains  
 85 the roll 5 of unexposed film, and the case 2 contains the roll 8 of exposed film. The film 7 is unperforated. The plate 3 lies in a plane lengthwise of, and perpendicular to the portion of the film extending  
 90 between the cases 1, 2 and to the axes of the film rolls. Thus, said portion of the film is entirely free on its two sides. The film roll 8 is wound on to a hub 4 rotatably mounted on a fixed hub 9 formed  
 95 on the part 2' of the case 2. The fixed hub 9 is hollow and open at its ends to permit coupling means 6, which are provided on the hub 4 and project into the hub 9, to be engaged by a film feeding  
 100 mechanism mounted in the photographic camera for the purpose of rotating the hub 4.

The film is kept for sale in the package described. The package is inserted in  
 105 the camera, the intermediate piece 3 be-

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ing used as a handle. The portion of the film extending between the two cases 1 and 2 lies in a slot behind the lens. After the entire film has been exposed, the package is removed from the camera and can be stored until the film is to be developed. The package is so economical to construct that it can be thrown away after use and a new package containing an unexposed film inserted in the camera.

As the two cases 1 and 2 are interconnected only by means of the intermediate piece 3, and as that portion of the film which extends between the two cases is entirely free on its two sides, scratching of the film is avoided, provided that in the photographic camera the film during feeding is moved without friction against parts of the camera, and is pressed automatically against the picture window only at the end of each feeding movement.

Having now particularly described and ascertained the nature of our said invention and in what manner the same is to be performed, we declare that what we claim is:—

1. A package intended for unperforated photographic roll film, for daylight loading of a camera, comprising two interconnected cases, one containing the unexposed film and the other containing a roller on to which the exposed film is

wound, wherein the two cases are spaced apart from each other at a fixed distance corresponding substantially to the length of a picture, solely by a single interconnecting piece of rigid and invariable character, which bridges two corresponding ends of the cases and lies in a plane extending lengthwise of and perpendicular to that portion of the film which extends between the two cases, so that said portion of the film is left entirely free on both sides.

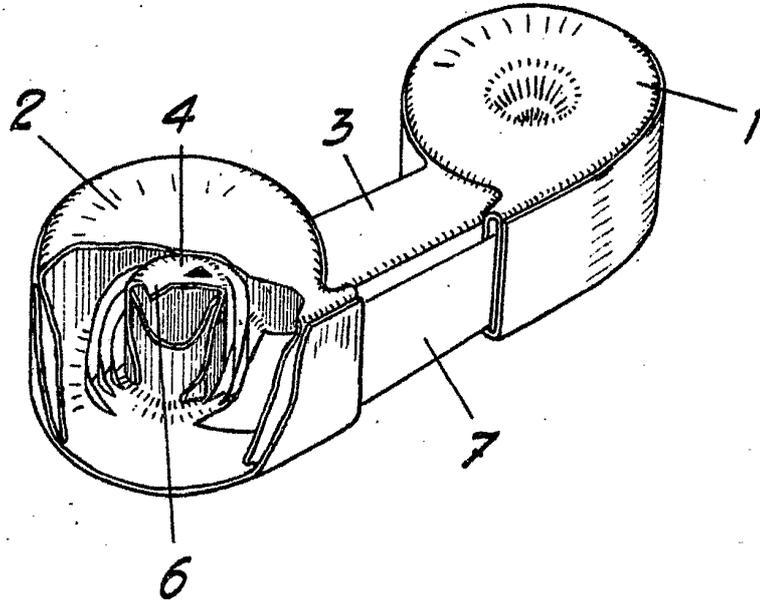
2. A daylight loading film package according to claim 1, wherein the interconnecting piece has terminating cup-like portions integrally formed therewith to serve as parts of the casings, one of said cup-like parts having a central open hub to permit coupling means for a rotatable hub in said case to be engaged by film feeding mechanism.

3. A daylight loading package intended for a non-perforated roll film, constructed substantially as hereinbefore described with reference to the accompanying drawing.

Dated this 2nd day of December, 1937.

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FIG. 1.



*[This Drawing is a full-size reproduction, of the Original.]*

FIG. 2.

