Jan. 5, 1932. K. WEINDL 1,840,143

FILM CARTRIDGE

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Fig. 2

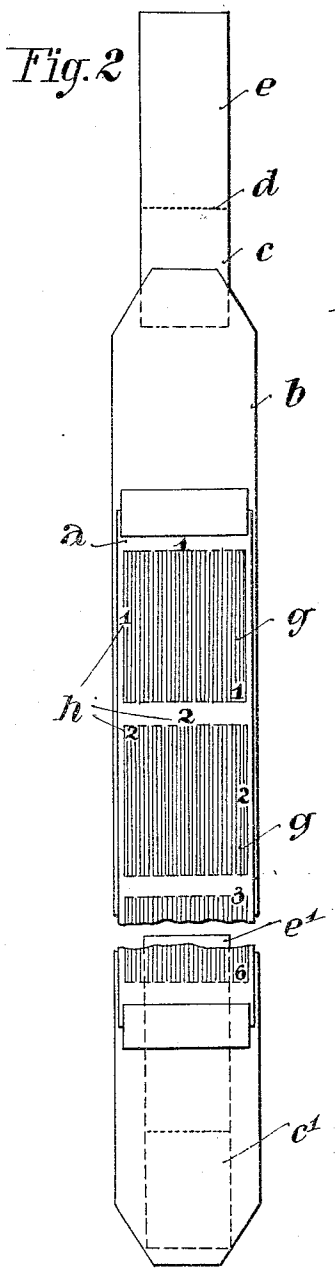


Fig. 1

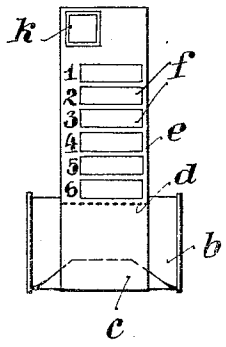


Fig. 3

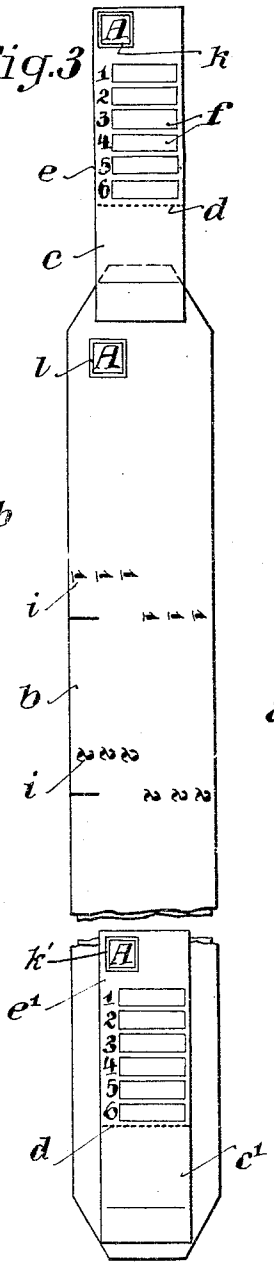
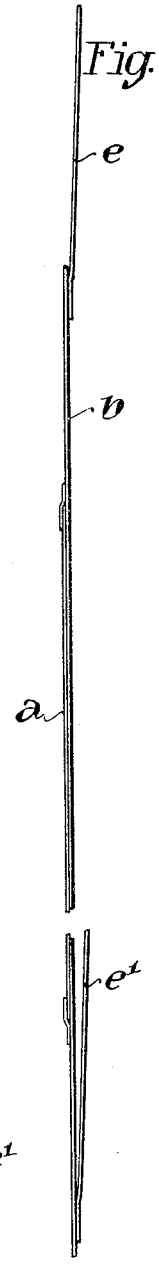


Fig. 4



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Fig. 5

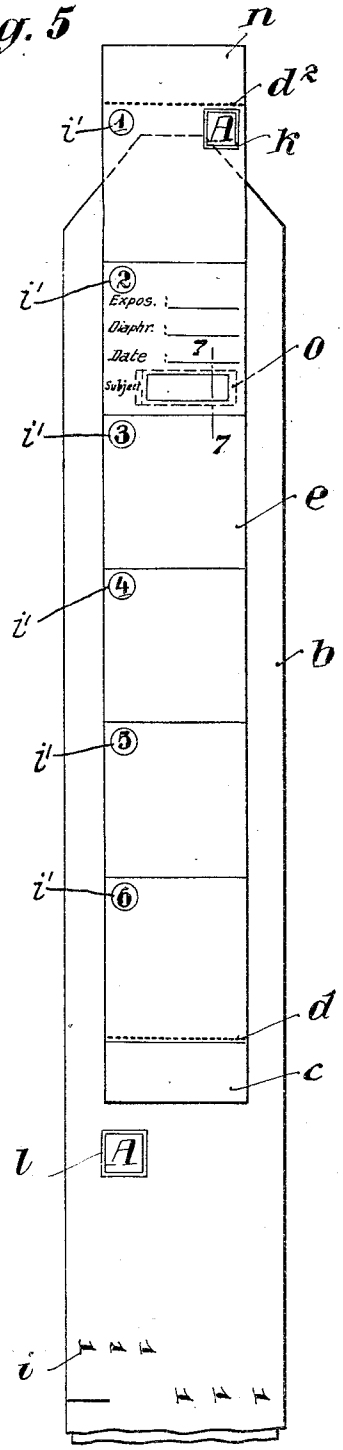


Fig. 6

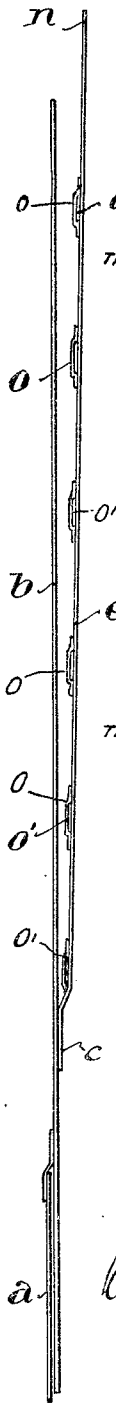


Fig. 7.

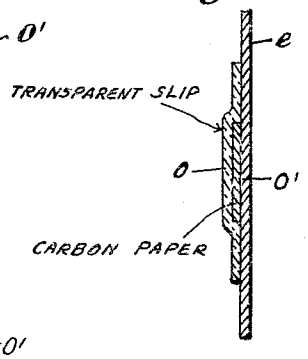
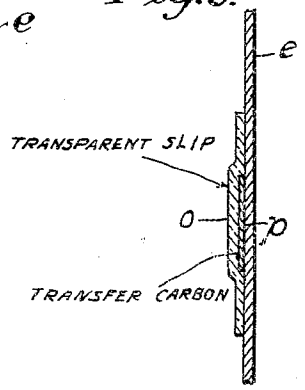


Fig. 8.



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UNITED STATES PATENT OFFICE

KARL WEINDL, OF MUNICH, GERMANY

FILM CARTRIDGE

Application filed June 18, 1928, Serial No. 286,450, and in Germany August 25, 1927.

My invention relates to photographic film and more particularly to film cartridges. It is an object of my invention to provide means for making notes relating to the several pictures in a cartridge. To this end I provide a detachable strip on the wrapper of the cartridge which has areas for making notes, the areas being numbered or marked in conformity with the usual numbers or marks on the film.

Heretofore it was impossible to make notes concerning the pictures in film cartridges, for instance date, object, time of exposure, diaphragm, etc., while on the other hand such notes are particularly desirable for cartridges as a cartridge can only be developed after the film has been completely exposed, and a long time may elapse until it can be developed. Preferably I provide two detachable strips for each cartridge, one of the strips serving for making the notes while the film in the cartridge is being exposed, and the other serving for copying the notes on the first strip after the cartridge has been exposed, the first strip being retained by the person who has exposed the cartridge, and the second strip being handed to the person who will develop the film.

In the drawings affixed to this specification and forming part of this application three embodiments of my invention are illustrated diagrammatically by way of example.

In the drawings

Fig. 1 is an elevation of a closed cartridge showing the adhesive sticker for closing the cartridge and one of the detachable strips,

Fig. 2 shows the wrapper unrolled and viewed from the inside,

Fig. 3 shows the wrapper unrolled and viewed from the outside,

Fig. 4 is an end elevation of the wrapper viewed from the left in Fig. 3,

Fig. 5 is an elevation of an unrolled wrapper having a somewhat modified strip, viewed from the inside,

Fig. 6 is an end elevation of the wrapper viewed from the left in Fig. 5,

Fig. 7 is a section on the line 7—7 in Fig. 5, drawn to a larger scale, and

Fig. 8 is a section drawn to the same scale as Fig. 7, showing a modification.

Referring now to Figs. 1 to 4, a is a film, b is its wrapper, c, c' are adhesive stickers at either end of the wrapper, e, e' are note strips at the ends of the stickers, and d are perforations for facilitating the separation of the strips from the stickers.

The areas on the film a which will be exposed are indicated by the parallel-sectioned rectangles g, Fig. 2, each rectangle being marked with a numeral which is imprinted on the film at h as "1, 1, 1," for the first area g, "2, 2, 2" for the second area, and so on. Corresponding numerals are imprinted on the back of the wrapper b, Fig. 3, at i, and appear in a sight opening of the camera, not shown, as the film is fed past the objective in the usual manner.

The wrapper b is marked, for instance with the letter A, in an area l, Fig. 3, and similar areas k and k' are imprinted on the principal strip e and the duplicate strip e'. The principal and duplicate strips bear areas f, the number of which corresponds to the number of pictures in a cartridge, in the present instance six, and each area is marked with one of the numerals h, i, which appear on the film a and the wrapper b.

In operation when the cartridge is opened at one end for inserting it in the camera, the strip e is separated from the sticker c at d and is kept as a record of the pictures taken. As often as one of the areas g is in position for exposure, the corresponding mark i appears in the sight opening of the camera, and when this picture has been exposed a note relating to it is made in the corresponding area at f. When the complete cartridge has been exposed it is removed from the camera and developed. If the pictures are to be developed by an operator who has not exposed them, the notes on the principal strip e are copied on the duplicate strip e' as a guide for the operator.

If desired, the strips e, e', or the principal strip e, may be made of transparent material so that the notes in the areas f can be detached and pasted to the corresponding negatives, and will copy on the prints which are

made from such negatives. To facilitate this operation, the strips may be gummed at the back so that the notes only require moistening for pasting them to the negatives.

The areas *f* illustrated in Figs. 1–4 are comparatively small. It has been assumed that they will bear only a single note, as a rule, a note relating to the subject of the picture. For instance the name of a person in the case of a portrait, the name of a scene or a building, or whatever it may be, is copied on the prints taken from a given negative. However, it may be desirable for the operator to make and to keep other notes which are of interest only to himself and this obviously requires a larger area. An example for a principal strip *e* with areas for several notes is illustrated in Figs. 5, 6 and 7.

The strip *e* is attached to the wrapper *b* by means of an adhesive sticker *c* with which it is connected by perforations *d*, as described with reference to Figs. 1–4. In addition, it may have an adhesive sticker *n* at its free end with perforations d^2. The marks *k*, *k'* and *i* are applied to the wrapper and the film as described, and, in addition, numerals *i'* are inserted in the several areas of the strip which correspond to the numerals *i* on the wrapper and, obviously, to the numerals *h* on the film *a*.

As mentioned, generally only the note of the subject will be copied on the pictures while the other notes are of private interest only. Therefore, as illustrated for the picture (2), the area which is reserved for the subject is surrounded with perforations, or is otherwise so connected with the strip as to be readily detached therefrom. Obviously, a slip which is detached in this manner should be transparent. Generally, it will be found convenient to make the film of transparent material throughout, but obviously the area within the perforations might be separately prepared so as to make it transparent. The slip within the perforations should also be gummed and for the sake of simplicity it will generally be preferred to make the strip with its stickers of gummed material throughout instead of applying adhesive to the stickers and the subject areas only.

It will be understood that the strip within the perforations is lost to the operator who is therefore under the necessity of making a separate note about the subject. This drawback is eliminated by the expedient illustrated in Fig. 7. Here, a slip *o* of transparent and preferably gummed paper is pasted to the area of the strip *e* opposite the area for the subject, or any other area from which a note is desired to be copied. The slip *o* is attached to the strip *e* along its edges only so as to form a pocket, as best seen in Fig. 7, and a strip of carbon paper *o'* is inserted between the strip *e* and the slip *o*, with its layer facing the slip. In this manner a note which is made in the area for the subject is copied on the slip *o* which is then separated from the strip *e* and pasted to the negative. Instead of inserting a strip of carbon paper at the area of the subject the slip *o* might be provided with a layer of carbon or the like *p* at its back, as illustrated in Fig. 8. In this manner the note of the subject, or any other note or notes, may be preserved on the strip *e* while the slip *o*, with the same note on it, is pasted to the negative.

The sections marked 1, 2, etc., are all similar although the printed matter has been omitted except in sections 3, 4, etc., to save unnecessary labor.

I wish it to be understood that I do not desire to be limited to the exact details of construction shown and described for obvious modifications will occur to a person skilled in the art.

I claim:—

1. A film cartridge comprising an opaque wrapper, a photographic film secured thereto, a detachable strip secured to said wrapper, means on said wrapper arranged to indicate the location of specified sections of the film, and means on said strip adapted to define areas, each having an indicating means corresponding to one of the first-mentioned indicating means, and each area having a space for receiving information concerning the respective section of the film.

2. A film cartridge comprising an opaque wrapper, a photographic film secured thereto, an adhesive sticker at one end of said wrapper, a detachable strip secured to said sticker, means on said wrapper arranged to indicate the location of specified sections of the film, and means on said strip adapted to define areas, each having an indicating means corresponding to one of the first-mentioned indicating means, and each area having a space for receiving information concerning the respective section of the film.

3. A film cartridge comprising an opaque wrapper, a photographic film secured thereto, a detachable strip of transparent material secured to said wrapper, means on said wrapper arranged to indicate the location of specified sections of the film, and means on said strip adapted to define areas, each having an indicating means corresponding to one of the first-mentioned indicating means, and each area having a space for receiving information concerning the respective section of the film.

4. A film cartridge comprising an opaque wrapper, a photographic film secured thereto, a detachable strip of transparent material and having a gummed back secured to said wrapper, means on said wrapper arranged to indicate the location of specified sections of the film, and means on said strip adapted to define areas, each having an indicating means corresponding to one of the first-mentioned indicating means, and each area hav-

ing a space for receiving information concerning the respective section of the film.

5. A film cartridge comprising an opaque wrapper, a photographic film secured thereto, a detachable strip secured to said wrapper, means on said wrapper arranged to indicate the location of specified sections of the film, means on said strip adapted to define areas, each having an indicating means corresponding to one of the first-mentioned indicating means, and each area having a space for receiving information concerning the respective section of the film, and means which positively but separably connect a portion of the strip containing one of said areas to the rest of said strip.

6. A film cartridge comprising an opaque wrapper, a photographic film secured thereto, a detachable strip secured to said wrapper, means on said wrapper arranged to indicate the location of specified sections of the film, means on said strip adapted to define areas, each having an indicating means corresponding to one of the first-mentioned indicating means, and each area having a space for receiving information concerning the respective section of the film, and a detachable slip of transparent material secured at the rear of said strip opposite one of said areas and having a portion spaced from said strip to define therewith a pocket for receiving an insertion of transfer material.

7. A film cartridge comprising an opaque wrapper, a photographic film secured thereto, a detachable strip secured to said wrapper, means on said wrapper arranged to indicate the location of specified sections of the film, means on said strip adapted to define areas, each having an indicating means corresponding to one of the first-mentioned indicating means, and each area having a space for receiving information concerning the respective section of the film, a detachable slip of transparent material secured at the rear of said strip opposite one of said areas, and a layer of transfer material on the back of said slip facing said strip.

8. A film cartridge comprising an opaque wrapper, a photographic film secured thereto, detachable strips secured to both ends of said wrapper, means on said wrapper arranged to indicate the location of specified sections of the film, and means on said strips adapted to define areas, each having an indicating means corresponding to one of the first-mentioned indicating means, and each area having a space for receiving information concerning the respective section of the film.

In testimony whereof I affix my signature.

KARL WEINDL.