

RESERVE COPY

PATENT SPECIFICATION



Convention Date (France): Jan. 21, 1936.

488,934

Application Date (in United Kingdom): Jan. 15, 1937. No. 1275/37.

Complete Specification Accepted: July 15, 1938.

COMPLETE SPECIFICATION

Improvements in Photographic and similar Apparatus

We, ARTIMA (LONDON) LIMITED, of 273, Grays Inn Road, London, W.C.1, a British Company, do hereby 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:—

The invention relates to photographic and similar apparatus, that is to say, apparatus such, for example, as advertising apparatus in which reels of film or other strip material are required to be wound from one spool to another.

The object of the invention is to effect the fixing in the said casings of the spool supports, even if they are rather large, without the aid of any supplementary means of fixing, such as screw, bolts, rivets or other fixing means, and in a manner which avoids delicate operations, obviates all risks of deterioration of or damage to the casings and which results in an important economy in the cost of the apparatus.

For this purpose, the invention consists in the combination, for fixing the spool supports, of cavities, hollows, or grooves, formed in the casing of the apparatus with bent resilient tongues which are provided on the said supports, and which are fixed by being forced into the said grooves, hollows or cavities.

The invention has also for its object to provide, as new industrial products, spool supports for photographic and similar apparatus, which supports are characterised in that they are formed of a single member of resilient metal or alloy, and comprise a base provided on the one hand with one or several resilient tongues which are adapted to be fitted into the cavities or grooves in the casing; on the other hand with one or several similar tongues for braking the film; and also one or two lateral members bent up at right angles to the base for forming the cheeks for supporting the spool.

Another object of the invention is the production, also as a new industrial product, of a member of a resilient metal or alloy, provided with one or several folded tongues adapted to be fitted into the cavities or grooves in the casing, the said

member forming at the same time a support for the spools, a partition for the dark chamber and a guide for the film.

In order to facilitate the understanding of the invention, an instance, which is by way of example only, of carrying out the invention is hereinafter described and diagrammatically represented in the accompanying drawings in which,

Figure 1 is a plan view of one of the two sections forming a casing of moulded material, for a photographic camera, with the spool supports fitted in it;

Figure 2 is a longitudinal transverse section on the line A—A of Figure 1;

Figure 3 is a perspective view of one of the spool supports; and

Figure 4 is a fragmentary perspective view of a modification.

In the drawings, 1 is a section forming a half-casing; 2 represents the mounting of the objective, 3 the view-finder, and 4 and 5 are the longitudinal and transverse partitions of the dark chamber.

The mounting of the spool supports is effected, as shown in Figures 1—3, by means of the grooves or cavities 6 parallel to the partitions 5, the spool-carriers 7 being adapted to be firmly engaged therein when forced into position. For this purpose, the spool-carriers 7, formed of resilient material, such, for example, as tempered steel, and whose base has a reinforcing rib, are provided with downwardly extending tongues 7^a bent in the form of hooks, so that when the said hooks are engaged in the grooves 6 and a suitable pressure is exerted at the inner side of the hooks, the fitting into place of the spool carriers and the definite fixing of the said hooks into the grooves is assured, the shape of the extremities of the hooks avoiding any possibility of their accidental dislodgement from the grooves which accommodate them.

The spool-carriers 7 comprise, further, a bent tongue 7^b which serves to exert a certain pressure on the film to prevent an inopportune unwinding when the film is being placed in position and further to ensure a suitable tension in the film; they also present side parts 7^c bent up at right angles forming cheeks for supporting the