A. B. CARTER.

SHIPPING CONTAINER FOR MOTION PICTURE REELS.

APPLICATION FILED MAY 3, 1917. RENEWED JUNE 12, 1920.

1,365,659. Patented Jan. 18, 1921.

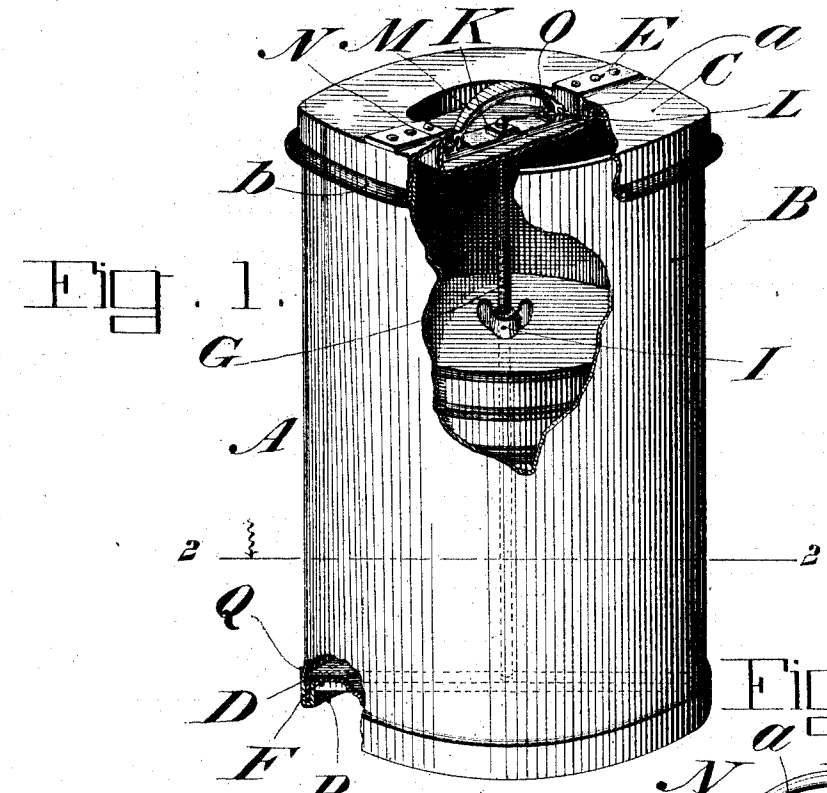


Fig. 1.

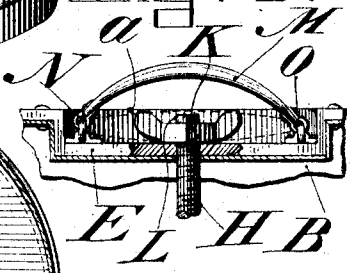


Fig. 4.

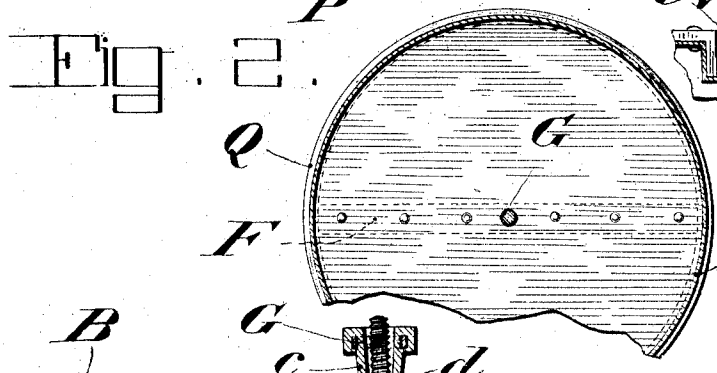


Fig. 2.

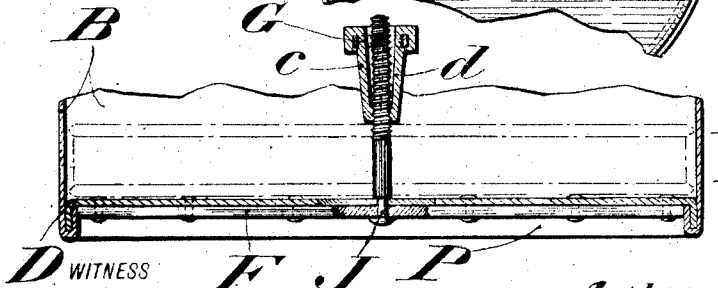


Fig. 3

WITNESS

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SHIPPING-CONTAINER FOR MOTION-PICTURE REELS.

1,365,659. Specification of Letters Patent. Patented Jan. 18, 1921.

Application filed May 3, 1917, Serial No. 166,155. Renewed June 12, 1920. Serial No. 388,666.

To all whom it may concern:

Be it known that I, ARTHUR B. CARTER, of Brattleboro, in the county of Windham and State of Vermont, have invented a new and useful Shipping-Container for Motion-Picture Reels, of which the following is a specification.

The present invention relates to a fireproof shipping container for motion picture reels. In transmitting the reels from one exchange to another it has heretofore been customary to put them in a large fireproof case, being an ordinary sheet metal shipping case. In such a shipping case the reels have opportunity for moving around, to their injury, and it is necessary to have a large number of sizes of cases in order to ship different numbers of reels, or else the reels in a case not entirely filled may be further damaged in shipment.

It is the object of the present invention to provide containers which can be of uniform size, and yet designed for use with any number of reels, within its capacity, and to so secure the reels in place that they can not move about in the container to their damage.

Figure 1, is a perspective view of the can, with parts broken away to facilitate illustration. Fig. 2, is a section in the plane indicated by the line 2—2 in Fig. 1. Fig. 3, is an enlarged cross section of the bottom of the container. Fig. 4, is an enlarged detail view of the handle and its fastenings.

The shipping container A, is of sheet metal and has a cylindrical body B, a removable cover C, and a fixed bottom D. The cover C, is constructed with a central depression *a*, the purpose of which will be hereinafter described, and a surrounding bead *b*, on its lower outside edge. Attached on the outside of the cover C, and formed to fit in the depression *a*, as well as along the uppermost surfaces of the cover, and also attached on the outside of the bottom D, are reinforcing, stiff, metal strips or bars E and F, respectively. These strips are fastened by any appropriate means, here shown to be by rivets. Extending through the center of the container is a metal rod G, which is screw-threaded as shown at H, except at the bottom of the container. Movable lengthwise on the rod G, and separable therefrom, is a retainer, shown in Fig. 1, as a thumb screw I. Fig. 3, however, shows the preferred form of retainer, namely, a slip nut. This nut is such as is shown in United States Letters Patent of Starrett, No. 642,170, January 30, 1900. It is screw-threaded to work up and down upon the rod G, if desired, but has relatively movable spring pressed jaws *c*, *d*. If the jaws of the nut are pressed together at their upper ends they open, and the nut can be slipped off from the rod without unscrewing.

The rod G, is fastened in place in the bottom of the container by having its end of less diameter than the screw-threaded portion, as shown at J, this smaller portion J, being passsed through registering apertures in the bottom D and strip F, and then being headed on the outside of the strip F. The cover C, and the strip E, are provided with centrally located, registering apertures forming a socket for the upper end of the rod G, to hold it securely in position, without lateral movement. After the cover is applied, a fastener, here shown as a nut K, is screwed upon the projecting portion L, of the rod G, thus adequately holding the cover in place upon the container. This projecting portion L, of the rod G, extends through the cover, but does not extend above the top of the uppermost surface of the cover. This protects the fastening nut and the projecting portion L, from being broken off in transit.

For easy removal of the cover, and the handling of the container, the cover is provided with a swinging handle M, loosely socketed at N, O, these sockets being riveted to the cover C, and strip E, or made in one with the strip E. The loose fitting of the handle in the sockets, permits it to lie over upon the cover, to allow easy access to the securing nut K, and, when it is lying upon the cover, as it will do unless held up, it is below the top of the uppermost surface of the cover. Hence, the container when ready for shipment has no projection above the upper surface of the container which could be damaged.

When it is desired to ship reels in a case of this construction, the cover, fastener and retainer are removed. The reels are then slid upon the rod G, (each reel having a hole at its center) whereupon the retainer is placed upon the top of the uppermost reel, thus securing the reels solidly in place in the container. Instead of the reels alone being slid upon this rod G, the completed fireproof casings set forth in a co-pending ap-

plication filed April 6, 1917, Serial Number 160,203, can be used, thus giving a double fireproof protection.

With the preferred form of retainer, after it is slid upon the rod to the top of the uppermost reel, it may be given a few turns to insure the tightest possible holding in place of the reels in the container. The position of the reels and the application of the retainer are shown in full lines in Fig. 1. The cover is then put on and fastened, as above described. The container is now ready for shipment, and the reels cannot slide about in the container and no damage can be done to them.

By screw-threading the rod G, to near its lower end, it is possible to ship any number of reels within the capacity of the container, even to a single reel, as shown in dotted lines in Fig. 3.

In order to provide a container which would not have an uneven surface resting upon the floor, the present container is shown as at P, with a raised bottom construction, so that the strip F, when fastened to the bottom D, will not extend below the resting surface of the edge of the container. The bottom of the cylindrical body of the container may be provided with the bead Q, as shown in Fig. 1, or without the bead, as shown in Fig. 3.

I claim—

1. A fireproof shipping container for motion picture reels comprising a body, raised bottom and removable cover having therein a central depression, in combination with reinforcing strips located on the outside of the cover and the bottom of the container respectively, a screw-threaded rod extending through the center of the container and fastened to the bottom thereof and its reinforcing strip, a retainer screwing up and down upon said rod and removable therefrom, said cover fitting upon said container and said rod extending through registering, centrally located apertures in said cover and its reinforcing strip, leaving a projecting end of said rod extending beyond the cover, but not beyond the uppermost surface thereof, and a securing nut screwing upon the projecting end of said rod.

2. A fireproof shipping container for motion picture reels comprising a body, raised bottom and removable cover having therein a central depression, in combination with strips located on the cover and the bottom of the container respectively, a screw-threaded rod extending through the center of the container and fastened to the bottom thereof and its strip, a retainer movable lengthwise upon said rod and separable therefrom, said cover fitting upon said container and said rod extending through registering, centrally located apertures in said cover and its strip, and a fastener upon the end of said rod, this fastener when in place not extending beyond the uppermost surface thereof.

3. A fireproof shipping container for motion picture reels comprising a body, bottom and cover, in combination with bars on the cover and the bottom of the container respectively, a rod extending through the center of the container, a retainer upon said rod and removable therefrom, said cover fitting upon said container and said rod resting in a socket in said cover and its bar, and means coöperating with said rod for fastening the cover in place.

4. A fireproof shipping container for motion picture reels comprising a body, bottom and cover having therein a central depression to accommodate a swinging handle on said cover, in combination with reinforcing strips located on the cover and the bottom of the container respectively, a rod extending through the center of the container, a retainer sliding upon said rod, the cover fitting upon said container and said rod extending through registering apertures in said cover and its reinforcing strip, leaving a projecting end of said rod extending beyond the cover, and a fastener for the cover on said projecting end, the fastener, projecting end nor handle extending beyond the uppermost surface of the cover.

5. A fireproof shipping container for motion picture reels having therein a rod upon which the reels fit, and a retainer coöperating with said rod for holding said reels in place in said container, a cover through which said rod passes, and a fastener accessible from above the cover and coöperating with said rod to hold the cover in place.

6. A fireproof shipping container for moving picture reels having a body, a bottom permanently secured thereto, and a cover; a rod connected to the bottom and extending through said container upon which motion picture reels fit, a retainer within the container coöperating with said rod between the bottom and cover and movable lengthwise thereon for holding said reels in place in said container, said cover fitting the body at its open end and having a socket in which the upper end of the rod enters, and a readily manipulated fastener for holding said cover in place.

7. A fireproof shipping container for moving picture reels having a body, a bottom permanently secured thereto, and a cover; a rod connected to the bottom and extending through said container upon which motion picture reels fit, a retainer within the container coöperating with said rod between the bottom and cover and movable lengthwise thereon for holding said reels in place in said container, and said cover fitting the body at its open end and having a socket in which the upper end of the rod enters.

8. A fireproof shipping container for moving picture reels having a body, a bottom permanently secured thereto, and a cover; a rod connected to the bottom and extending through said container upon which motion picture reels fit, a retainer within the container coöperating with said rod between the bottom and cover and movable lengthwise thereon for holding said reels in place in said container, and said cover fitting the body at its open end and cooperating when in place with the upper end of the rod.

In witness whereof, I have hereunto signed my name.

ARTHUR B. CARTER.