A. A. HUSEBY.

MUSIC ROLL CARTON.

APPLICATION FILED FEB. 5, 1919.

1,317,501. Patented Sept. 30, 1919.

Fig. 1.

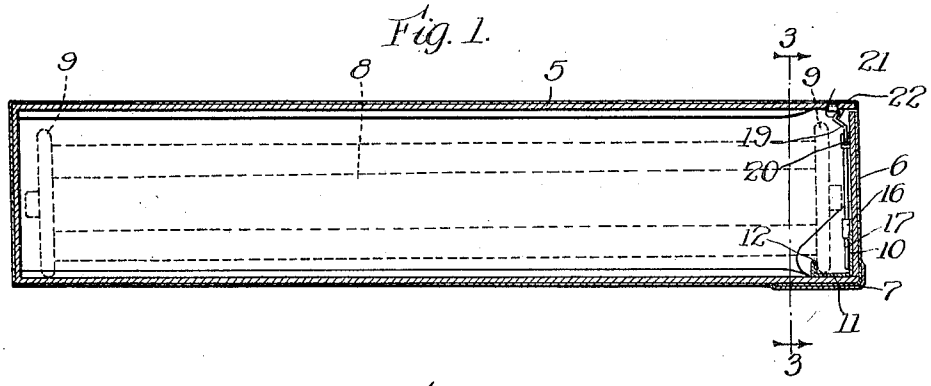


Fig. 2.

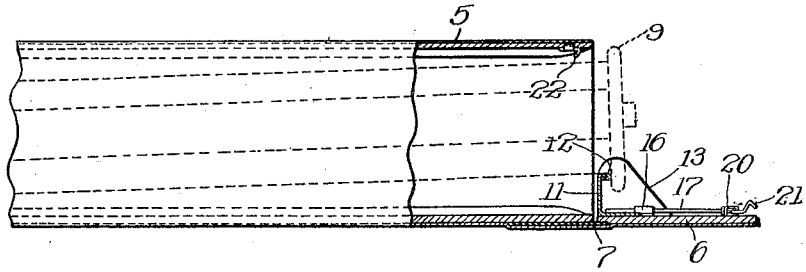


Fig. 3.

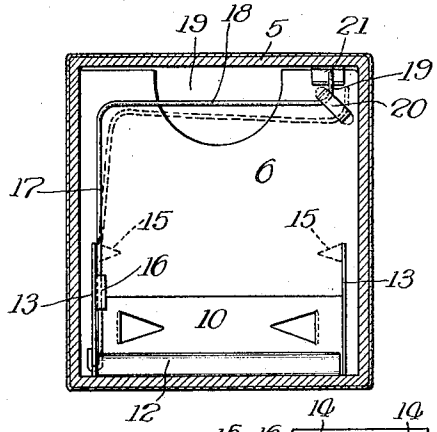


Fig. 4.

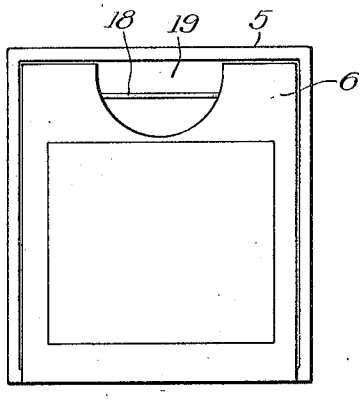
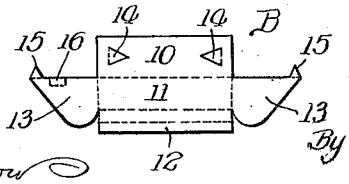


Fig. 5.



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MUSIC-ROLL CARTON.

1,317,501. Specification of Letters Patent. **Patented Sept. 30, 1919.**

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To all whom it may concern:

Be it known that I, ALBERT A. HUSEBY, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Music-Roll Cartons, of which the following is a specification.

This invention relates to improvements in cartons, having reference more particularly to that class of cartons used to contain music rolls for self-playing instruments, such as player-pianos. In Letters Patent No. 1,290,750 granted to me Jan. 7, 1919, I have disclosed a carton for music rolls of the general type above referred to; and the general purpose of the present invention is to provide certain improvements in the carton of my aforesaid patent, and in cartons of the general type shown in said patent. More specifically, one object of the present invention is to provide, in association with means for partially withdrawing the music roll when the end lid or cover is opened, means for automatically centering the forward end of the roll relatively to the end opening of the carton so as to insure the closing of the lid or cover, when the music roll is replaced, without interference from the head of the spool. Another object is to provide, in a carton of this character, an improved means for automatically fastening the end lid or cover, when closed to the body of the carton, so as to prevent danger of the cover flying open and allowing the music roll to fall out when the carton is carelessly handled or tipped in such a manner as to allow the roll to slide out. This fastening means is of such a character that it may readily be released by the finger of the user in the same operation by which the lid or cover is swung to open position, partially withdrawing the music roll.

Other objects and advantages of the invention will be readily understood and appreciated by those skilled in the art from the following detailed description taken in connection with the accompanying drawing, wherein I have illustrated a practical and approved embodiment of the invention, and in which—

Figure 1 is a vertical longitudinal section, showing in dotted lines a music roll in the carton, and with the cover of the latter closed;

Fig. 2 is a similar view, broken off at the rear end, and showing the cover open and the music roll partly withdrawn;

Fig. 3 is a vertical cross-section on the line 3—3 of Fig. 1, and illustrating the attachments on the inner side of the cover for partially withdrawing the music roll, centering the latter during the closing operation, and automatically fastening the cover when closed;

Fig. 4 is a front end elevation of the carton with the cover closed and fastened;

Fig. 5 is a plan view of a sheet metal blank from which is formed an integral member that is attached to the inner surface of the cover and provides a hook for partially withdrawing the roll, a centering means, and a support or socket for a spring-closed latch-bar by which the cover is fastened in closed position.

Referring to the drawing, 5 designates as an entirety the rectangular body of the carton, and 6 designates the end cover or lid that is attached at its lower edge to the forward edge of the bottom wall of the body by a hinge member 7 of cloth, leather or like flexible material. 8 designates the body and 9 the heads of an ordinary music-roll spool of the type used in player-pianos and similar self-playing instruments.

Referring to Fig. 5, B designates as an entirety a blank of tin or other thin sheet metal which is cut to the shape shown and is then bent on the dotted lines so as to provide a body strip or plate 10, an inwardly extending hook consisting of the horizontal and vertical portions 11 and 12, the latter being preferably folded on itself to provide a lip of double thickness, and a pair of inwardly extending substantially parallel lugs or wings 13 flanking the ends of the body and hook portions and lying in planes at right angles to the latter. From the body strip 10 are cut triangular teeth 14 that pierce the lid 6 and are bent against the outer face of the latter, thereby strongly securing the body and hook portions of the attachment to the cover; and on the ends of the wings or lugs 13 are formed similar teeth 15 that in the same manner pierce the cover 6 and are bent

flat against the outer surface of the latter, as indicated by dotted lines in Fig. 3, thereby strongly securing said lugs or wings in proper position. From the inner edge portion of one of the wings 13 there is cut and bent a sleeve 16 that forms a socket or holder for the integral stem 17 of a spring-wire latch-bar 18, which latter extends across a notch or finger-hold 19 that is cut in the upper free edge of the cover 6. Near its free end the latch-bar 18 carries an upwardly bent portion 19 confined against the cover by a guide 20 and terminating at its free end in a hook 21. This hook coöperates with an L-shaped catch or keeper 22, secured to the top wall of the carton body, as best shown in Figs. 1 and 3, and automatically engaging with the latter under the elasticity of the latch-bar and its integral stem or shank as the cover is swung to closed position.

In the closed position of the cover, with the carton loaded, the hook 11, 12 lies beneath and behind the periphery of the adjacent head of the spool supporting the latter, as clearly shown in Fig. 1. These cartons are usually stored or filed in superposed rows in a cabinet or rack; and when the roll is to be withdrawn, the finger is inserted through the notch or hole 19, depressing the latch-bar 18 to the dotted line position shown in Fig. 3, and the cover is swung downwardly to the horizontal position shown in Fig. 2. By means of the hook the spool is partially withdrawn, as shown in Fig. 2, to a position in which it may be readily grasped by the thumb and fingers of the user and withdrawn. When the roll is replaced it is inserted to the position shown in Fig. 2, and the lid is simply swung upwardly to the closed position shown in Fig. 1. During this operation the lugs or wings 13 lie on opposite sides of the spool-head and prevent the latter from rolling to either side to such an extent as to bring the marginal portions of the head between the cover and the vertical edges of the side walls of the box, thus properly centering the head of the spool so as to insure the entrance of the latter through the open end of the box. As the cover nears its fully closed position the inclined rear side of the hook 21 slides over the catch or keeper 22 and springs up into locking position behind the latter, as shown in Fig. 3, thus preventing the cover from accidentally flying open while the carton is being handled. This automatic fastening feature is of great importance in music-roll cartons of this character, because preventing the rolls from accidentally sliding out the carton when the latter is tipped with its cover end downwardly, and so saving injury and breakage of the rolls from this cause, which is a frequent occurrence in music-roll boxes or cartons of this general type.

It is believed that the structure, manner of use, and advantages of the invention will be readily apparent to those skilled in the art from the foregoing description and the accompanying illustration. Detail changes may of course be made without substantially altering the structural principle or lessening the practical utility of the device, and within the spirit and purview of the appended claims.

I claim:

1. A music roll carton having a hinged end cover, said cover having attached thereto an inwardly extending hook adapted to engage behind the head of the spool lying adjacent to said cover whereby said roll is partially withdrawn when the cover is opened, and also having means to automatically center the head of the spool relatively to the end opening of the carton.

2. A music roll carton having a hinged end cover, said cover having attached thereto an inwardly extending hook adapted to engage behind the head of the spool lying adjacent to said cover whereby said roll is partially withdrawn when the cover is opened, and also having a pair of inwardly extending lugs adapted to engage the head of the spool and automatically center the same relatively to the end opening of the carton.

3. A music roll carton having a hinged end cover, said cover having attached to its inner side an integral sheet metal member shaped and bent to provide an inwardly extending hook adapted to engage behind the head of the spool lying adjacent to said cover and a pair of inwardly extending lugs serving as guards to center the head of the spool relatively to the end opening of the carton.

4. A music roll carton having a hinged end cover, said cover having on its inner side an integral sheet metal member shaped and bent to provide a body strip, an inwardly extending hook adapted to engage behind the head of the spool lying adjacent to said cover, a pair of inwardly extending guards acting to center the head of the spool relatively to the end opening of the carton, and attaching prongs on said body strip adapted to secure the same to said cover.

5. A music roll carton having a hinged end cover formed with a finger-hole, said cover having attached to its inner side an inwardly extending hook adapted to engage behind a head of the spool, a spring-closed latch-bar mounted on said cover and manually retractable through said finger-hole, and a keeper on the body of said carton coöperating with said latch-bar to automatically fasten said cover against opening when the same is closed.

6. A music roll carton having a hinged

end cover formed with a finger-hole, an inwardly extending hook attached to the inner side of said cover and adapted to engage behind a head of the spool, a pair of inwardly extending guide lugs serving to center the head of the spool relatively to the open end of the carton, a spring-closed latch-bar mounted on the inner side of said cover and extending across said finger-hole, and a keeper on the body of said carton coöperating with said latch-bar to automatically fasten said cover against opening when the same is closed.

ALBERT A. HUSEBY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."