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H. C. STOLL

1,743,499

CIGARETTE BOX

Filed April 20, 1929

Fig. 1.

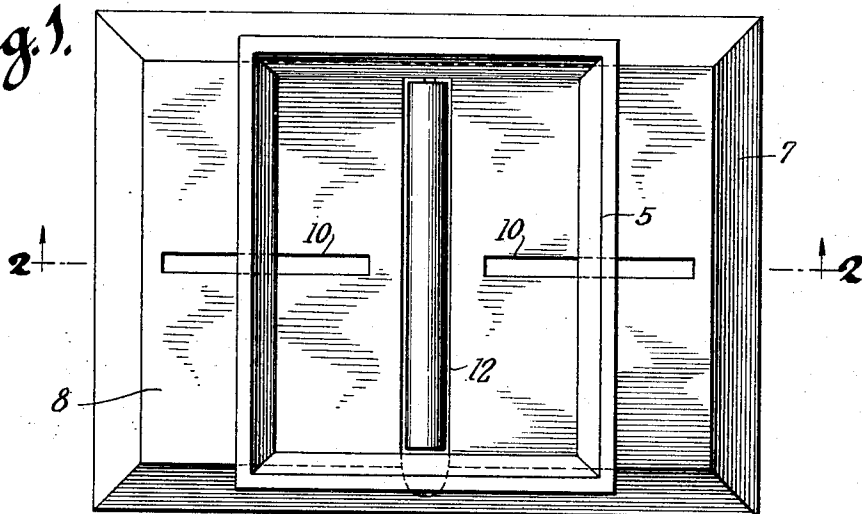


Fig. 2.

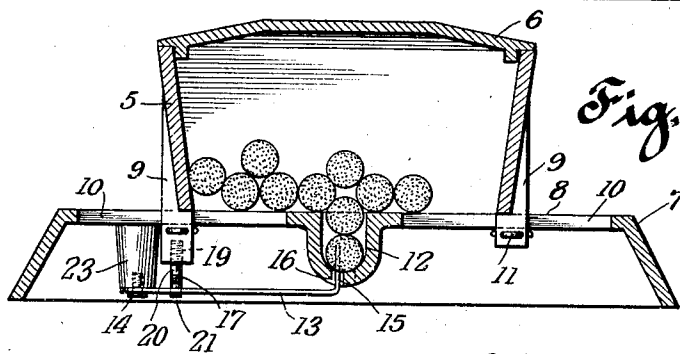


Fig. 3.

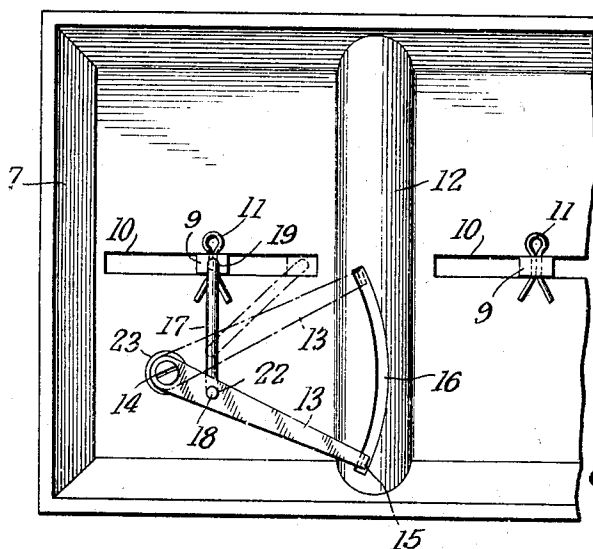
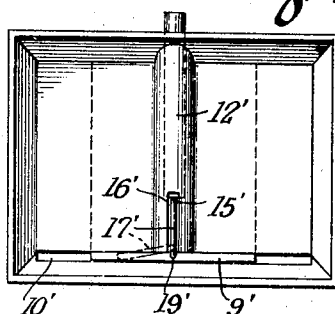


Fig. 4.



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CIGARETTE BOX

Application filed April 20, 1929. Serial No. 356,793.

This invention relates to boxes or containers for cigarettes and the like, and special objects of the invention are to provide a container of this character, which will hold a desired supply of the cigarettes or other articles and which can be handily operated for delivering the articles, one at a time for use.

Further special objects of the invention are to provide a simple, substantial inexpensive form of article delivery apparatus, which can be readily manufactured and assembled.

These objects are attained by certain novel features of construction, combinations and relations of parts as set forth in the following specification and broadly covered in the claims.

The drawing accompanying and forming part of the specification, illustrates one practical commercial embodiment of the invention and it should be understood that the structure may be modified as regards this disclosure without departures from the true spirit and broad scope of the invention.

Fig. 1 is a plain view of the device with the cover removed and showing one of the articles in the delivery chute ready for delivery; Fig. 2 is a vertical sectional view of the device as on substantially the plane of line 2—2, Fig. 1; Fig. 3 is a broken bottom view of the device; Fig. 4 is a bottom plan view of a modified form of construction.

Referring first to Figs. 1 and 2, it will be seen that the device consists of two main parts, a holder or box portion 5, usually equipped with a suitable cover 6 and a base or supporting portion 7. This base part is illustrated as having a raised flat table portion on which the box member slides and said box member is shown as confined in this relation by the dependent lugs 9 on the ends of the same working down through longitudinal slots 10 in the table and held by cotterspins or equivalent fastening means 11 at the underside of the table.

A transverse article delivery-way 12 is shown formed in the intermediate portion of the table, said way being indicated in Fig. 2 as a trough or depression in the table large

enough to freely contain a full-size article.

The delivery mechanism comprises in the first form of the invention a lever 13 pivoted on a stud 14 on the underside of the table, within the hollow base and having on its free end an upwardly extending ejector finger 15 operating up through a slot 16 in the bottom of the delivery way. This ejector lever is shown as actuated by a link or lever 17 pivotally connected at one end at 18 with the ejector lever and pivotally connected at its opposite end at 19 with the left hand lug 9, which is shown in Fig. 2 as extended down far enough to provide a proper seat for the end of the actuating lever.

In the example illustrated, the pivotal mounting 19 for the actuating lever is in the form of a screw seat, Fig. 2 and the lever has an upwardly bent portion 20 screw-threaded to rotatably fit in said screw seat. This enables the actuating lever being quickly mounted in place by screw-threading the end 20 into the seat 19 after the box has been mounted on the base, and then engaging the opposite down-turned end 21 of the actuating lever in the hole 22 provided therefor in the ejector lever. The pivot mounting 14 for the ejector lever may be in the form of a screw engaged in the bottom of a post 23, dependent from the underside of the base.

The opening 22 in the ejector lever is preferably located relatively close to the pivotal support 14 so that movement of the end 18 of the actuating lever will swing the free end of the ejector lever through a wide arc as indicated in Fig. 3. Thus, a comparatively short sliding movement of the box on the base will through the movement-multiplying connection 17 throw the ejector lever through a considerable angle for ejecting the article in the trough, a distance sufficient for it to be readily grasped in the fingers.

The form of the invention may be simplified as indicated in Fig. 4 by using only a single lever as indicated at 17' pivoted at 19' in the lower end of the lug 9' operating in the slots 10', the other end of said lever having an upturned ejecting finger 15' operating in the slot 16' in the bottom of the delivery

trough 12'. In this particular construction, the longitudinal slots 10' are shown co-extensive as a single continuous slot, in the back portion of the base at the rear of the delivery way. The movement of the box in this case directly actuates the ejector lever, the same being retracted as indicated by the broken lines when the box is shifted to one side or the other of the central position and the ejector finger advancing in the delivery way when the box is returned to the central position indicated in the full lines.

The box and base may be made in sheet material or molded or cast in the desired forms, and the two can be quickly and easily assembled. By employing the screw pivot connection 19' in the Fig. 4 construction, the lever 17' may be utilized also as a means for securing the box down in position on the base.

What is claimed is:

1. In article delivery apparatus, the combination of a base having a raised table portion with a delivery trough and slots at opposite sides of said trough, an article holder operable over said table portion and having lug elements operating in said slots and by which the holder is guided in definite movement over the table portion and an article ejector supported beneath said table portion, said ejector operating in the trough and connected with the holder so as to be actuated thereby during the movement of the same over the table portion of the base.

2. In article delivery apparatus, a base having an article delivery way and provided with a slot disposed at an angle to said delivery way, an article holder shiftable over the base and having a lug entered in said slot and an article ejector operating in said way and connected to be actuated by said holder during the movements of the latter relative to the base.

3. In article delivery apparatus, a base having an article delivery way and provided with a slot disposed at an angle to said delivery way, an article holder shiftable over the base and having a lug entered in said slot and an article ejector operating in said way and connected to be actuated by said holder during the movements of the latter relative to the base, said ejector comprising a lever having a connection with the lug operating in the slot.

4. In article delivery apparatus, a base having an article delivery way and provided with a slot disposed at an angle to said delivery way, an article holder shiftable over the base and having a lug entered in said slot and an article ejector operating in said way and connected to be actuated by said holder during the movements of the latter relative to the base, said ejector comprising a lever and a lever connection between said lever and the lug.

5. Article delivery apparatus, comprising relatively movable members, one having an article delivery way and the other adapted to contain articles for entry in said way, an ejector lever operating in said way and connecting means between the container member and ejector lever for effecting operation of the latter upon relative movement of the two members.

6. Article delivery apparatus, comprising relatively movable members, one having an article delivery way and the other adapted to contain articles for entry in said way, an ejector lever operating in said way and connecting means between the container member and ejector lever for effecting operation of the latter upon relative movement of the two members, the article delivery way extending substantially at a right angle to the direction of relative movement of the two members.

7. Article delivery apparatus, comprising relatively movable members, one having an article delivery way and the other adapted to contain articles for entry in said way, an ejector lever operating in said way and connecting means between the container member and ejector lever for effecting operation of the latter upon relative movement of the two members, said connecting means including a motion-multiplying lever.

8. Article delivery apparatus, comprising relatively movable members, one having an article delivery way and the other adapted to contain articles for entry in said way, an ejector lever operating in said way and connecting means between the container member and ejector lever for effecting operation of the latter upon relative movement of the two members, the first member having a hollow base into which the delivery way extends and the ejector lever being mounted in said hollow base at the side of delivery way.

9. In apparatus of the character described, a hollow base having a longitudinally extending slot and a transversely extending article delivery way, an article holder confined for longitudinal movement on the base over said way, a lever operating in the hollow base and having an ejector portion extending into said way and actuating connections extending from the holder through the longitudinal slot to said lever.

10. In apparatus of the character described, a hollow base having a longitudinally extending slot and a transversely extending article delivery way, an article holder confined for longitudinal movement on the base over said way, a lever operating in the hollow base and having an ejector portion extending into said way and actuating connections extending from the holder through the longitudinal slot to said lever and comprising a lug extending down from

the holder and a lever extending from said lug to the ejector lever.

11. In apparatus of the character disclosed, a hollow base having a longitudinally extending slot and a transversely extending article delivery way, an article holder confined for longitudinal movement on the base over said way, a lever operating in the hollow base and having an ejector portion extending into said way and actuating connections extending from the holder through the longitudinal slot to said lever and comprising a lug extending down from the holder, a lever extending from said lug to the ejector lever and key means engaged with said lug beneath the hollow base.

12. Article delivery apparatus, comprising a base having a flat top with longitudinal slots and a transverse delivery way between said slots, a box member sliding on said base and having lugs extending down through said slots, key means engaged with said lugs beneath the flat top of the base, a lever pivoted beneath the flat top of the base and having an ejector portion operating in the delivery way and a leverage link pivotally connected between one of the lugs and the ejector lever.

13. Article delivery apparatus comprising a base member having an open ended delivery way and an article holder, said article holder and base member being relatively shiftable to effect transfer of articles in the holder into said delivery way, an article ejector movably mounted on the base and operating in the delivery way substantially longitudinally of the same in back of articles deposited therein by the holder and connections from the holder for effecting ejecting and retracting movements of said ejector in the delivery way.

14. Article delivery apparatus comprising a base member having an open ended delivery way and an article holder, said article holder and base member being relatively shiftable to effect transfer of articles in the holder into said delivery way, an article ejector movably mounted on the base and operating in the delivery way substantially longitudinally of the same in back of articles deposited therein by the holder and motion multiplying connections from the holder for effecting ejecting and retracting movements of said ejector in the delivery way.

15. In article delivery apparatus the combination of a base member having an article delivery trough and slots at opposite sides of said trough, an article holder operable over said base member and having lug elements operable in said slots and by which the holder is guided in definite movement over said delivery trough and an article ejector operating in the delivery trough and connected with the holder so as to be

actuated thereby during the movement of the same over the delivery way.

16. In combination with a member having a delivery way open at one end for article delivery purposes, a lever pivoted at one end and having at the opposite end an ejector element operating substantially longitudinally in the opposite end of the delivery way, an article holder operable over the delivery way to deposit articles in the delivery way in front of the ejector element of the lever and a pivoted link connection from the article holder to said ejector lever.

In testimony whereof I affix my signature.
HENRY C. STOLL.

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