

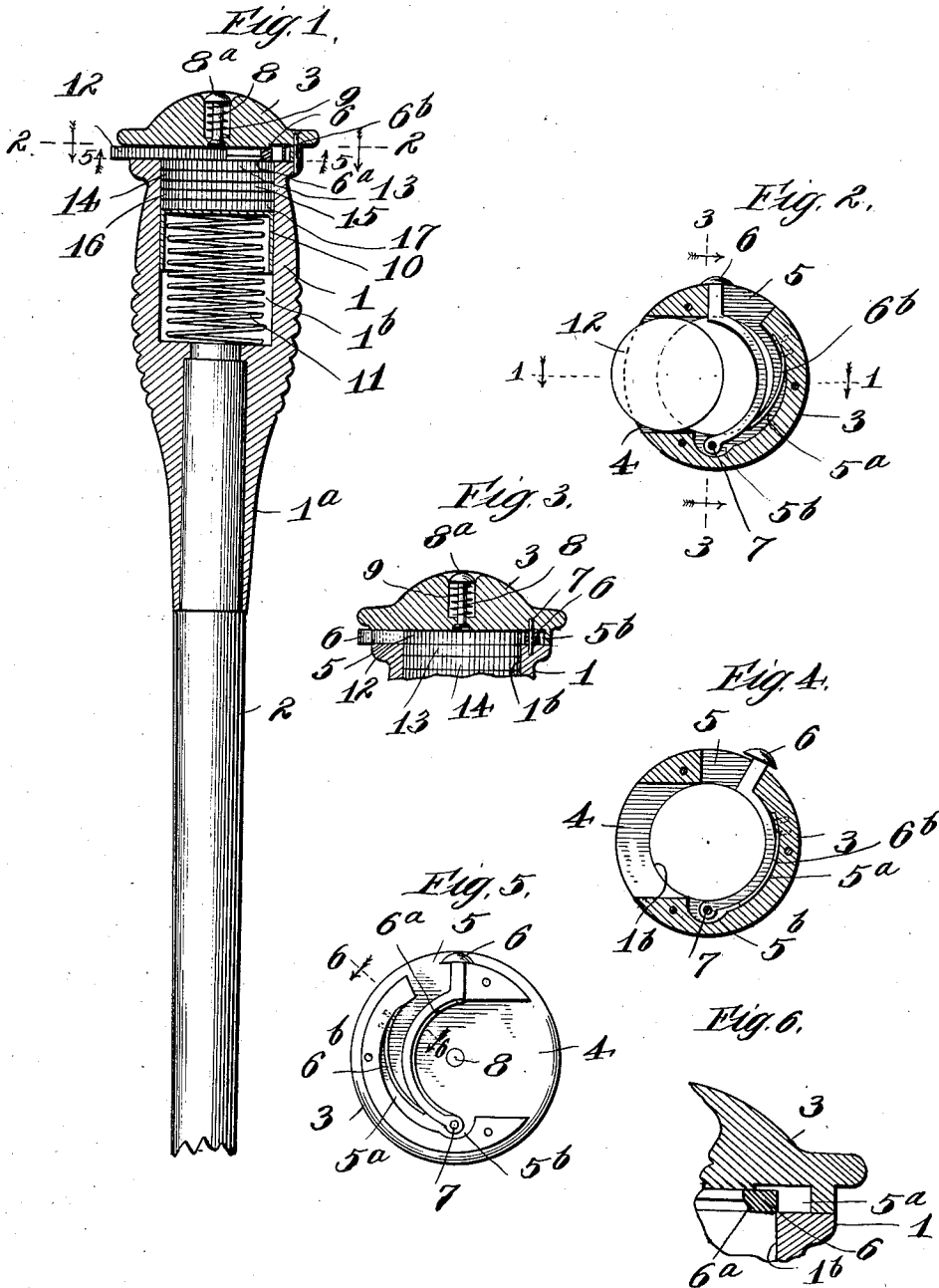
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W. A. SWAREN.

ATTACHMENT FOR UMBRELLAS AND THE LIKE.

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UNITED STATES PATENT OFFICE.

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ATTACHMENT FOR UMBRELLAS AND THE LIKE.

No. 880,419.

Specification of Letters Patent.

Patented Feb. 25, 1908.

Application filed January 12, 1907. Serial No. 357,914.

To all whom it may concern:

Be it known that I, WILLIAM A. SWAREN, 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 Attachments for Umbrellas and the Like, of which the following is a full, clear, and exact specification.

The invention relates to attachments for use in umbrella sticks, canes and the like, and the primary object is to provide an improved form of receptacle adapted to contain objects, as coins and the like, and which is provided with improved means for retaining such objects within the receptacle and for discharging the objects therefrom at will, the entire attachment being simple and effective in its operation, at the same time being economical to manufacture.

A further object of the invention is to provide an improved attachment of the class described, which is light in weight and sufficiently compact for ready attachment to the sticks of umbrellas, canes and the like, and being at the same time adapted to present an ornamental effect.

To accomplish these and other new and useful objects, as will appear, the invention consists in the features of novelty and in the construction, combination and arrangement of the several parts hereinafter more fully described and claimed and shown in the accompanying drawings, illustrating an exemplification of the invention, and in which—

Figure 1 is a view showing a longitudinal section of the device, the same being attached to the upper extremity of the stick as used in umbrellas, canes and the like. In this view, the spring-controlling the coin plunger, the coins and the stick to which the device is attached are not shown in section. This view of the device is taken approximately on line 1—1 of Fig. 2. Fig. 2 is a sectional view on line 2—2 of Fig. 1, looking in the direction indicated by the arrows. Fig. 3 is a sectional view on line 3—3 of Fig. 2. Fig. 4 is a view similar to Fig. 2 taken on line 2—2 of Fig. 1, in which the spring controlled discharge-lever is shown in position withdrawn beyond the limits of the magazine and compressing its controlling spring for purposes as hereinafter described. Fig. 5 is a sectional view on line 5—5 of Fig. 1. Fig. 6 is a detail sectional view on line 6—6 of Fig. 5.

1 is a casing which may be of any suitable

ornamental design but is shown in this exemplification of the invention in elongated form and provided with a downwardly extending portion 1^a of decreased size and adapted to be attached to the stick 2 of a cane or umbrella in any suitable manner. The interior of this member is provided with a suitable cylindrical space or magazine 1^b, in this exemplification of the invention shown extending longitudinally of the member and of a suitable diameter to receive coins as the ordinary five-cent nickels. The member 1 is constructed open at the top and provided with a suitable top piece or covering 3, which forms a covering making a complete closure of the magazine 1^b. A suitable slot 4, for the ingress and egress of coins or other objects desired to be carried in the magazine, is provided between cover member 3 and the member 1. This slot is preferably formed in the cover member 3, as described and shown in the drawings. A slot or recess 5, similar to 4, is also formed in the member 3, which is adapted to receive the exterior end of the discharge-lever 6. The slot or recess 5 is extended around the inner periphery of the member 3 at the top of the magazine forming a housing for the segmental discharge-lever. This housing is designated by 5^a and terminates in a widened portion 5^b providing a space or housing for the pivoted end of the lever, which may be secured and held in position by a suitable pivot 7 secured either into the member 3 or the member 1, or both. The discharge member 6 is controlled by a suitable spring 6^b secured in the recess 5^a of the member 3 or in any other suitable manner. This spring has for its function to normally hold the member 6 in a position illustrated in Fig. 2. The cover member 3 carries a pin or plunger 8, which is provided with a suitable head 8^a at its exterior end at the top of member 3 and extends through the member 3 and is adapted to enter the top of the magazine 1^b. This member is preferably held in normal position, its lower end being entirely within the lower surface of member 3^b by means of a suitable spring 9. A suitable plunger 10 controlled by spring 11 is carried within the magazine 1^b and is adapted to hold objects carried in the magazine in position at the top side thereof as illustrated in Fig. 1.

The operation of the device is as follows: Coins may be inserted at 4, as illustrated by the numeral 12, Fig. 1. When the coin is

within the slot and beyond the limits of the outer surface of the device, it may be further pushed or crowded therein by the insertion of another coin or of a suitable object until it contacts with the concave side of the discharge member 6. Sufficient pressure may be exerted on the coin to cause it to compress the spring 6^b which controls the member 6 allowing the member 6 to enter the recess 5^a and the coin consequently to register with the top of the magazine 1^b. It will be apparent that instead of compressing the spring controlled member 6 by pressure on the coin, this member may be operated from the exterior of the device by the means provided, as illustrated. If, however, the member 6 be withdrawn from the top of the magazine before the coin enters the top of the magazine, it will be seen that the plunger 10 will force a coin into the position desired to be occupied by the entering coin, thus blocking the passage; or, if there be no coins in the magazine, the plunger itself will enter the space at the top of the magazine. When the entering coin is in position flush with the top of the magazine, it may then be pushed into position within the magazine proper by means of the spring controlled plunger 8. When pressure is applied to the upper extremity 8^a of the plunger 8, it is caused to protrude below the lower surface of the member 3 as before described and the operation of putting the coin in the proper position within the magazine is facilitated by the construction of the discharge member 6, the lower concave side of which is provided with the beveled surface 6^a. It will be apparent that before the insertion of the coin within the proper limits of the magazine, the member 6 is held within the recess 5^a, thus compressing the spring 6^b by the coin and when the coin is depressed within the magazine by the plunger 8 until the upper edge of its periphery registers with the beveled surface 6^a, the spring-pressed member 6 will have a tendency to crowd the coin downwardly and resume its normal position over the top of the magazine, thus retaining the coins in position. It will be apparent that by increasing the extent to which the concave surface of the member 6 is broken away by the beveled surface 6^a, a construction may be attained which will cause the coin entering the magazine to be deflected downwardly and into the magazine immediately on contacting with member 6.

The process of inserting coins as described may be continued until the magazine is filled. It will be noted that in receiving and retaining coins in the magazine, the pivoted member or lever 6 may have the two functions as described; first, when provided with beveled surface 6^a to assist in forcing coins into position in the magazine, and, second, to lock or hold the coins in position by re-

suming its normal position over the top of the magazine, as illustrated in Fig. 2.

Coins are discharged from the device as follows: When the member 6 is operated from the exterior of the device by being brought against its controlling spring 6^b in the manner illustrated in Fig. 4, it will be seen that the plunger 10 will force upwardly the entire column of coins and that the upper coin will be pressed against the top of the magazine and immediately in the path of the member 6. If now the member 6 be suddenly released it will, by reason of its spring control, strike the coin and eject it through the orifice 4 with more or less force, depending upon the strength of the spring. It will be apparent that this process of ejecting the coin may be continued until the magazine is emptied, whereupon the plunger 10 will spring into position behind the member 6, thus locking this member within the recess or housing 5^a. This position of the parts will serve to explain another use for the spring-controlled plunger 8, which may be depressed and in lowering the plunger 10 against elastic controlled spring 11 will serve to release the member 6, which will spring into its normal position, thus putting the device in condition for re-filling the magazine.

If it is not desired to discharge the coins from the device under spring pressure, as described, they may be discharged conveniently and quietly by withdrawing the discharge member 6, as before described, thus allowing the column of coins within the magazine to be forced upwardly in position, as before described. Instead of suddenly releasing the member 6, however, if it is released under control in order that it may not strike the coin with sufficient force to eject it, it will be seen that since the thickness of this member is shown somewhat greater than that of the coin, it will force the column of coins downwardly and lock them into position and at the same time release the pressure on the uppermost coin, which will lie partly on top of the magazine and partly within the discharge slot and may be dropped out of the slot when the device is tilted into the proper position.

The outer periphery of the cover or top 3 is preferably of larger diameter than the casing 1, thus forming a guard or covering for the slots 4 and 5 partially covering them from view and at the same time serving as a guard over the exposed end of the lever 6.

In order that the invention might be fully understood by those skilled in the art, the details of the foregoing embodiment thereof have been thus specifically described but

What I claim as new therein and desire to secure by Letters Patent is—

1. In a device of the character described, the combination with a receptacle for objects embodying a shank adapted for attaching

said receptacle to the stick of an umbrella, cane, or the like, of an elastically controlled plunger within the receptacle, a pivoted member adjacent a slot, elastic means for normally holding the pivoted member within the path of objects entering the slot, and a spring controlled plunger operable from the exterior of the receptacle and adapted to co-operate with the slot and the pivoted lever.

2. In a device of the character described, the combination with a receptacle provided with a slot adapted to permit the ingress and egress of objects, of a spring controlled plunger within the receptacle, a pivoted member movable adjacent the slot, a movable member operable from the exterior of the receptacle and adapted to coöperate with the pivoted member in controlling the slot, and a shank adapted to attach the said receptacle to the stick of an umbrella, cane, or the like.

3. In a device of the character described, the combination in a receptacle for objects, of a plunger adapted to move longitudinally therein, elastic means interposed between one end of the receptacle and the plunger and adapted to hold the said plunger normally at the opposite end thereof, there being a slot adjacent to the said opposite end of the receptacle, a pivoted discharge lever mounted to move in the slot, elastic means adapted to hold the said pivoted lever normally within the path of objects entering the slot, and a plunger operable from the exterior of the receptacle and adapted to move objects from contact with said pivoted discharge lever in the direction of the interior of the receptacle.

4. In a device of the character described the combination of a receptacle provided with a slot in the wall thereof adapted to permit the ingress and egress of objects, an elastically controlled plunger normally operable to force objects within the receptacle transversely of the said slot, an elastically controlled discharge lever adjacent the slot, and a plunger operable from the exterior of the receptacle and adapted to enter the interior of the receptacle adjacent the slot and adapted to move objects transversely of the said slot toward the interior of the receptacle.

5. In a device of the character described, the combination of a receptacle for objects, there being a slot communicating with the said receptacle, an elastically controlled pivoted member adapted to oscillate adjacent to said slot and a spring controlled plunger operable from the exterior of the receptacle and adapted to move objects inserted within the slot in the direction of the interior of the receptacle.

6. In a device of the character described, the combination with a cylindrical receptacle having a slot in the cylindrical wall thereof adapted to permit the ingress and egress of objects, a spring controlled pivoted member provided with a curved body portion

mounted within the receptacle adjacent the said slot and adapted to control the ingress and egress of objects therethrough, a handle on the said pivoted member for operating the same from the exterior of the receptacle, and a plunger operable from the exterior of the receptacle and adapted to enter the interior thereof at an angle to the plane of movement of the said pivoted member to force objects inserted within the slot toward the interior of the receptacle.

7. In a device of the character described, the combination of a cylindrical receptacle adapted to receive coins and the like and provided with a slot adapted to permit the passage of a coin or object therethrough and communicating with the interior of the said receptacle adjacent to one end thereof, a spring-controlled pivoted member adapted to oscillate in the path of movement of objects entering the receptacle through the said slot, an elastically controlled member adapted to force objects entering the receptacle through the said slot toward the interior of the receptacle, and an elastically controlled plunger mounted in the said receptacle and adapted to force objects in contact therewith transversely of the said slot.

8. In a device of the character described, the combination of a receptacle for coins and the like, there being a slot adjacent to one end thereof and adapted to permit the ingress and egress of objects to be carried in the receptacle, a pivoted member adjacent to said slot and adapted to contact with objects entering the receptacle through the said slot and being provided with a surface deflected at an angle to the path of movement of objects entering the receptacle through the said slot and adapted to move the said objects in the direction of the interior of the receptacle.

9. In a device of the character described, the combination with a cylindrical receptacle for coins, having a slot flush with one end thereof and adapted to permit the ingress and egress of objects, a pivoted member within said receptacle and adapted to contact with objects entering the said slot, and a spring controlled plunger adapted to enter the receptacle adjacent the slot at an angle to the plane of movement of the said pivoted member to force objects from contact therewith toward the interior of the receptacle.

10. In a device of the character described, the combination of a cylindrical receptacle for coins, there being a slot flush with one end of said receptacle and communicating with the exterior thereof, a pivoted member within the said receptacle and adapted to contact with objects entering the said slot and a spring-controlled member operable from the exterior of the receptacle and adapted to enter the receptacle adjacent to the said slot at an angle to the plane of movement of the

said pivoted member to force objects from contact therewith toward the interior of the receptacle.

- 5 11. In a device of the character described, the combination of a receptacle, there being a slot for the ingress and egress of objects, a movable member controlling said slot and being provided with a handle operable from the exterior of the device and an annular
10 flange adjacent to said slot and movable controlling member and adapted to form a

guard for the handle of the said movable controlling member.

In testimony whereof I have signed my name to this specification, in the presence of 15 two subscribing witnesses, on this 9th day of January A. D. 1907.

WILLIAM A. SWAREN.

Witnesses:

C. H. SEEM,
A. L. SPRINKLE.