April 22, 1924. 1,491,522

C. L. DOWNEY

COIN WRAPPING DEVICE

Filed Sept. 25, 1919

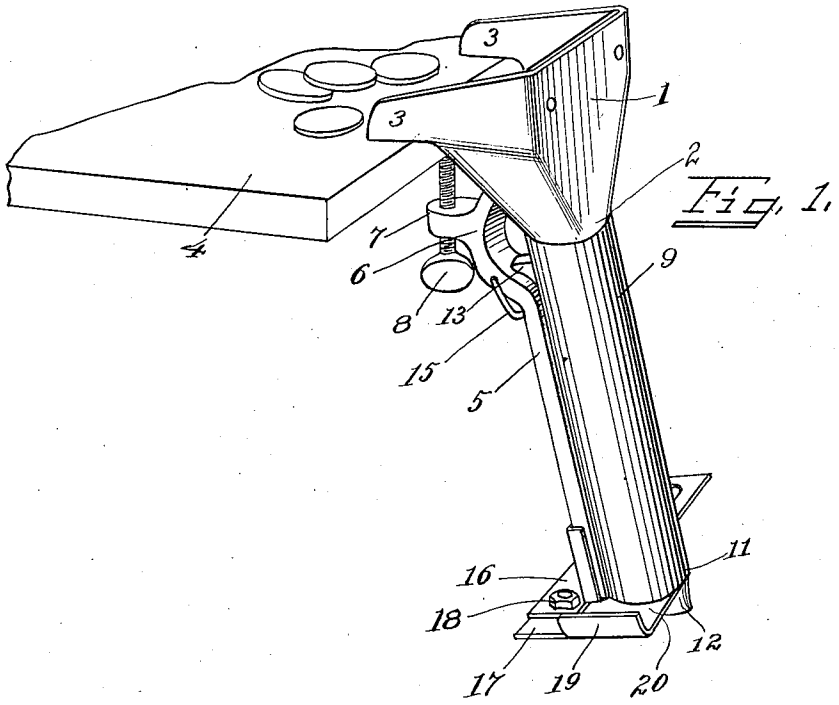


Fig. 1.

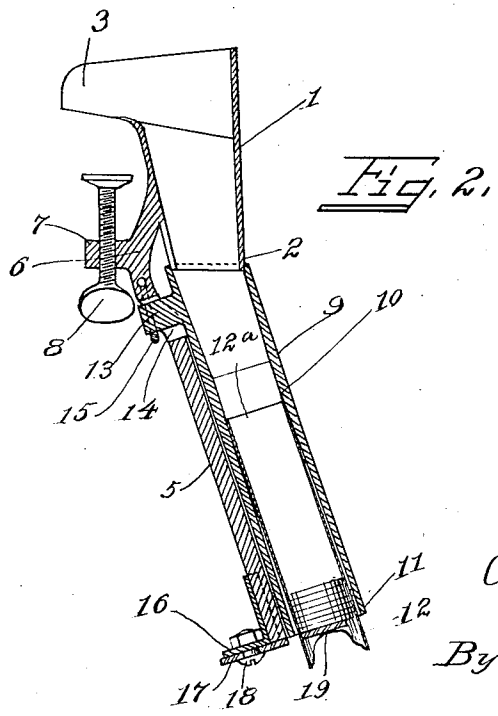


Fig. 2.

Inventor:
Clement L. Downey
By Allen & Allen
Attorneys.

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UNITED STATES PATENT OFFICE.

CLEMENT L. DOWNEY, OF CINCINNATI, OHIO.

COIN-WRAPPING DEVICE.

Application filed September 25, 1919. Serial No. 326,113.

To all whom it may concern:

Be it known that I, CLEMENT L. DOWNEY, a citizen of the United States, and a resident of the city of Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Coin-Wrapping Devices, of which the following is a full, clear, and exact description, reference being had to the drawings forming a part of the specification.

My invention relates to devices for use in connection with the counting of coins and the enclosing them in packages or tubes.

I am aware that there are several devices on the market which provide collectors for coins and which form them into a cylindrical stack, some of which devices also provide means for holding a wrapper or tube in position for receiving stacks of coins.

Among other advantages which my invention possesses over the other devices of which I am cognizant are that I provide a holder or hopper to which is demountably attached a coin tube proper. Also I provide a coin tube which will readily receive a wrapper and hold it in such a position that the coins inserted therein will fall naturally into the wrapper itself. My funnel or hopper is designed for mounting detachably upon a desk or table and the coin tube support retains the tube in place without requiring it to be held in the hand, so that the user may employ both hands in sorting the coins. In addition to the above, I provide in connection with the support for the coin tube, a device which bends in one side of the coin wrapper and retains the coins in the tube or holder until withdrawn by the operator.

The above advantages and other features which will be pointed out below, I accomplish by that certain construction and arrangement of parts to be hereinafter more specifically pointed out and described.

In the drawings,

Figure 1 is a perspective view of the device complete and attached to a desk or table.

Figure 2 is a longitudinal section therethrough.

The hopper 1 is funnel shaped, terminating in an outlet or neck 2 and quite broad at the top and provided with ears 3, 3, which are cut at an angle or partial taper so as to rest on top of the desk or table 4 and hold the various parts of the machine at a slant over the surface of the table. Preferably cast with the hopper is a bar 5 which has an elbow 6 and a boss 7 which latter has a clamping screw 8 that cooperates with the ears 3 to grasp the edge of some such support as the table 4.

The coin tubes for use with my invention may be of varying sizes to accommodate different sized coins and wrappers. These tubes will be of a length to reach from the neck of the hopper to the end of the supporting bar and comprises a substantially cylindrical body 9 which tapers down from the point adjacent the neck to the point 10 and runs truly cylindrical after a short distance and then tapers out again slightly to the lower end 11 thereof. The internal diameter 10 should be of a size to just exclude or to very snugly receive the tubular coin wrapper 12 of the size used with coin of the desired denomination.

In inserting a tubular wrapper into the tubular body of a coin counting device or coin receiver the operator usually experiences his greatest difficulty. If the tube of the receiver is too small he cannot get the wrapper in place without considerable work. If it is too large a wrapper will sit loosely in the tube and the coins will strike on the edges of the wrapper and not fall smoothly in place within it. According to my invention it is easy to insert the wrapper as it fits fairly loosely in the end 11 of the tube and the end 12^a of the wrapper when thrust into position by the operator will be held snugly and tightly against the walls of the receiver. This tubular coin wrapper, such as is indicated at 12, is a well known article of commerce and is formed of stout paper glued into tubular form and of standard size for the various coins for which they are used. In order to hold the tubes on the supporting arm they are provided with a lock 13 that extends through a slit 14 in the elbow of the supporting bar and as a simple and preferred form of catch I employ and provide a lip or ring 15 which swings over the inwardly protruding end of the shoulder.

At the lower end of the supporting bar is

an arm 16 beneath which slides a slotted plate 17, the slots of which are engaged by bolts 18. If the arm 16 is made integral with the bar, screws will be used instead of the bolts 18. The plate 17 has a finger tab 19 and a tongue 20, the parts being so mounted that after a coin wrapper has been inserted into the tube at 11 far enough to bring its edge 12ª to substantially the point 10 of the tube, the tongue may be pushed across the open end of the tube which will crease over one side of the protruding end of the wrapper.

In use, the funnel or hopper is clamped in place on the table, the proper sized tube or receiver mounted in place, the proper sized wrapper inserted and the tongue pushed over. The operator, thus, has both hands free to count coins and push them into the hopper. The supporting bar, tube and hopper are all at a slant which facilitates the dropping of the coins in place.

The fact that both hands can be used is of great importance over present devices and the provision of a hopper and holder which may be mounted on any desired surface is another valuable feature, as is, of course, the interchangeability of the tubes. Then further the novel shape of the tube itself as fully described above is a distinct new advantage in the art.

Having thus described my invention what I claim as new and desire to secure by Letters Patent is:—

1. In combination a clamp for mounting on a table, an open sided hopper mounted on said clamp and adapted to engage the edge of the table, a coin tube and means on the clamp for detachably mounting the coin tube in a position to receive coins from the hopper.

2. In combination a clamp for mounting on a table, an open sided hopper mounted on said clamp and adapted to engage the edge of the table, a coin tube on the clamp to receive coins from the hopper, said coin tube being adapted to receive and hold a tubular coin wrapper, and a wrapper folding and tube closing means mounted on the clamp to engage over the free or open end of the tube, for the purpose described.

3. In combination a clamp for mounting on a table, an open sided hopper mounted on said clamp and adapted to engage the edge of the table, a coin tube on the clamp to receive coins from the hopper, said clamp being adapted to retain the hopper and the coin tube at a slant from the vertical and comprising a bar extending the length of the tube, and having a slot therein and a lug on the tube to engage in said slot.

4. A coin counting and wrapping device which consists essentially in a hopper member, and a tubular member, said tubular member having a tapered formation to snugly fit the desired wrapper between its ends and loosely fit it at at least one of its ends, said taper being gradual between said two extremes whereby the wrapper may be readily inserted in the tube, and moved into a position so that its coin receiving end will fit snugly.

5. A coin counting and wrapping device which consists essentially in a tubular structure to receive coins and a tubular coin wrapper, said structure having an internal conformation adapted loosely to fit such tubular wrapper at the point of its insertion into the structure and snugly fit that end of the tube which when inserted into the tubular structure is presented to the coins and gradually tapering between said loose and snug fitting portions.

6. A coin counting and wrapping device which consists essentially in a tubular structure having both ends open, one end to receive coins, and the other to receive a tubular wrapper for the coins, said tubular structure having a conformation to loosely receive the wrapper, said conformation tapering gradually to a snug fit for said wrapper.

7. A coin counting and wrapping device which consists essentially in a tubular structure to receive coins at one end and a tubular wrapper at the other, said structure having a conformation of a dimension loosely fitting the tubular wrapper at its point of insertion, and snugly fitting it at the end presented to the coin receiving end of the structure and gradually tapering intermediate said extremes.

8. A coin counting and wrapping device which consists essentially in a tubular structure to receive coins at one end and a tubular wrapper at the other, said structure having an intermediate dimension of a size to just exclude the inserted end of the desired wrapper, said intermediate dimension tapering gradually outwardly toward the ends of the tubular structure.

9. A coin counting and wrapping device which consists essentially in a tubular structure to receive coins at one end and a tubular wrapper at the other, said structure having an intermediate dimension of just over the dimension of the coin to be used, said dimension tapering gradually outwardly toward the wrapper receiving end of the structure.

10. A coin counting and wrapping device which comprises a funnel member, a bracket for attaching said funnel member to a plane surface on which coins may be placed, said bracket comprising in part a tube retaining member, and a tube adapted to engage said retaining member, so that the end of said tube is adjacent the neck of the funnel.

11. A coin counting tube comprising a tubular structure having an internal bore tapering gradually from a dimension at one end of a size to readily receive a tubular coin wrapper to an intermediate point adapted to block further movement of the wrapper into the tube, the bore at said line of blocking the wrapper being of a size approximately that of the proper coin for entering the wrapper, said bore above said line being of a size to readily permit passage of such coin when lying transverse the axis of said bore.

CLEMENT L. DOWNEY.