

Aug. 13, 1957

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2,802,325

COIN BANK AND PACKAGING DEVICE

Filed March 14, 1956

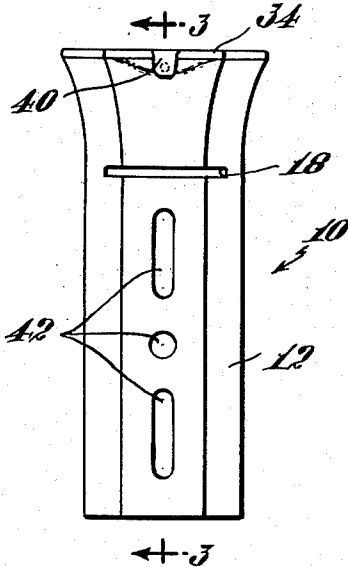


Fig. 1

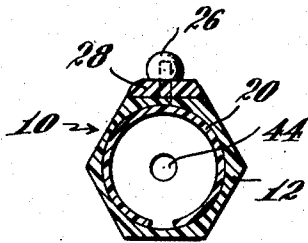


Fig. 2

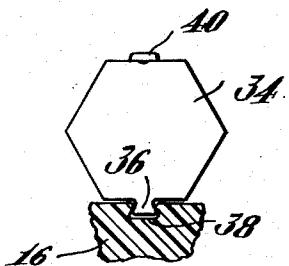


Fig. 4

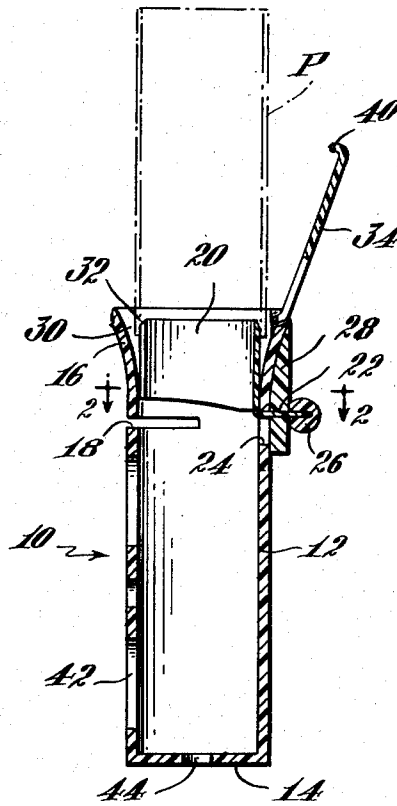


Fig. 3

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COIN BANK AND PACKAGING DEVICE

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Application March 14, 1956, Serial No. 571,426

10 Claims. (Cl. 53—254)

This invention relates to a coin handling device and has for its principal objects to provide a device for banking coins of a predetermined denomination in a stack until a given quantity have been accumulated and to facilitate transferring the accumulated coins in a uniform stack to a packaging tube quickly and easily without danger of spilling and/or loss of coins. Other objects are to provide a coin bank of very simple construction for receiving a predetermined number of coins so designed as to enable one to determine the level of the coins therein at any time, to enable one to dislodge coins stuck in it, to prevent loss of coins through the coin slot and to permit easy discharge of the entire stack of coins when desired.

As herein illustrated the device has a tubular body portion of such cross-section as to receive a single stack of coins of a predetermined denomination. The tube is closed at one end and has at its opposite end a mouth which flares to a larger diameter through which the stacked coins may be discharged when the tube has been filled. Substantially at the junction of the body and mouth there is a coin slot through which coins may be deposited in the tube and within the tube at the mouth there is situated a sleeve which is arranged to slide axially from a position above the coin slot downwardly into the body portion far enough to cover the coin slot. The sleeve is large enough in diameter to permit coins to pass through it but is of smaller diameter than the mouth so that there is an annular space between it and the mouth into which the open end of a coin package may be thrust and telescopically engaged with the upper end of the sleeve. Thus the sleeve constitutes a conduit which facilitates transfer of the coins from the tube into the package without spilling. Axial movement of the sleeve is effected by an arm fast thereto which projects out through the wall of the tube through a slot, and a shoe fast to the arm and bearing against the wall of the tube serves frictionally to hold the sleeve in whatever position it is placed. A cap is hinged to the mouth of the tube and normally closes it when it is being used as a bank.

The invention will now be described in greater detail with reference to the accompanying drawings wherein:

Fig. 1 is a front view of the combined coin bank and packaging device in elevation;

Fig. 2 is a section taken on the line 2—2 of Fig. 3;

Fig. 3 is a vertical section taken on the line 3—3 of Fig. 1; and

Fig. 4 is a fragmentary vertical section at the rear wall of the tube showing the hinge for the cap.

Referring to the drawings, the combined bank and packaging device, as shown at 10 in Figs. 1 and 3, is an elongate tubular structure having a body portion 12, of suitable internal circular cross-section to receive coins of a predetermined denomination, which has a closed bottom 14 at one end and an open flaring mouth 16 at its open end. While the internal cross-section of the tube is shown as being of circular cross-section since most coins are circular it is, of course, to be understood that

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the internal cross-section may be made in whatever shape is required to receive the coins to be banked. The external contour of the tube (Fig. 2) solely for appearance is herein illustrated as hexagonal.

A coin slot 18 (Figs. 1 and 3) is provided in the wall of the tube at about the junction of the body portion with the mouth and provides for depositing coins within the tube. Above the coin slot within the mouth there is mounted a sleeve 20 (Figs. 2 and 3) which is preferably made of a somewhat elastic sheet material, for example sheet plastic split longitudinally and sprung into the tube so that it frictionally engages the inner wall of the tube. The sleeve 20 has at its lower end a laterally projecting arm 22 which extends through a slot 24 in the wall of the tube and at the outer end of the arm there is a knob 26 which may be grasped to move the sleeve axially within the tube. By moving the sleeve downwardly it may be caused to cover the coin slot 18, thus to form a closure for the slot so that coins will not accidentally drop out of the slot and be lost. When coins are to be placed in the tube the sleeve may be raised by lifting the knob upwardly to uncover the slot. A friction shoe 28 is fastened to the arm 22 between the knob 26 and the wall of the tube so as frictionally to engage the latter and hence to hold the sleeve against accidental movement from whatever position it is placed. The upper portion of the shoe is curved on its inner face so as to conform to the flare of the mouth and also to provide camming action so that when the sleeve is raised to its full extent it may be securely jammed in place, for a purpose which will subsequently appear.

The inside diameter of the sleeve is large enough to permit coins to flow through it, however, its external diameter is smaller than the flaring mouth so that there is an annular space 30 (Fig. 3) between the upper end of the sleeve and the mouth. Thus the upper end of the sleeve is exposed and makes it possible to place the open end of a coin package, such as shown in dot and dash lines at P, over it. To facilitate telescopic engagement of the package with the upper end of the sleeve the latter is beveled at 32. This is also augmented by the split in the sleeve which permits it to be contracted slightly in the event that the package is unusually snug. The sleeve as previously pointed out is held in its upper position by wedging engagement of the shoe 28 with the side of the tube and hence the coin package can easily be inserted over the end of the sleeve without pushing the latter down into the tube. Thus the sleeve constitutes a conduit which facilitates transferring coins from the tube to the package by the simple expedient of inverting the tube and allowing the coins to flow from it through the sleeve into the package.

Normally the tube is closed by a cap 34 hinged to the mouth of the tube by a dovetail tongue and groove 36—38. A latch 40 at the forward edge of the cap provides for snapping it into a closed position.

Sight openings 42 (Figs. 1 and 3) are preferably provided in the wall of the tube below the coin slot so that the level of coins therein may be determined and a small opening 44 (Figs. 2 and 3) is preferably provided in the bottom to permit inserting an implement for dislodging coins in the event that they become stuck in the tube.

The device is preferably made of plastic, however, any suitable material may be employed such as sheet metal or pressed paper.

From the foregoing it is evident that a very satisfactory and efficient combination bank and packaging device is provided which not only serves a convenient means for stacking coins until a predetermined number have been saved but also for stacking them in such a way that they are ready to be packaged and with means which facilitates

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the packaging so that the coins may be deposited in the package in one batch.

It should be understood that the present disclosure is for the purpose of illustration only and that this invention includes all modifications and equivalents which fall within the scope of the appended claims.

I claim:

1. A combination coin bank and packaging device comprising a tube having closed and open ends and being of suitable cross-sectional diameter to receive coins of a given denomination, a cover at the open end of the tube normally closing it, a coin charging slot in the wall of the tube near the open end of the tube through which coins may be deposited in the tube, a sleeve slidably disposed within the tube adjacent the open end and axially movable therein between positions covering and uncovering the coin slot, and means extending from the sleeve through a slot in the wall for manipulating the sleeve to raise it sufficiently to uncover the slot.

2. A combination coin bank and packaging device comprising a tube having closed and open ends and being of suitable cross-sectional diameter to receive coins of a given denomination, a cap at the open end of the tube normally closing the same, a coin charging slot in the wall of the tube near the open end through which coins may be deposited in the tube, a sleeve slidably disposed within the tube above the slot and axially movable between positions covering and uncovering the coin slot, means extending from the sleeve through a slot in the wall of the tube for adjusting the sleeve to raise it or lower it and a friction shoe fast to the last-named means externally of the tube and having frictional engagement therewith to hold the sleeve in a selected position of adjustment.

3. A combination coin bank and packaging device comprising a tube having a body portion of uniform diameter and of suitable cross-section to receive coins of a given denomination, said body portion being closed at one end and having at its opposite end a flaring open mouth of larger diameter than the body portion, a cap normally closing the mouth of the tube, a coin charging slot in the wall of the tube substantially at the junction of the body portion and the origin of the mouth through which coins may be deposited in the tube, a pilot sleeve slidably within the tube, said sleeve having an inside diameter large enough to permit coins to flow through it and an outside diameter smaller than the flared mouth of the tube above the coin slot so that there is an annular crevice between the sleeve and the mouth, said sleeve being movable axially in the tube from a place above the coin slot to a place covering the coin slot, and said annular crevice affording access to the upper end of the sleeve whereby an end of a tubular coin package may be slipped over said end of the sleeve to facilitate transferring coins in the coin tube to the coin package.

4. A combination coin bank and packaging device comprising a tube having a body portion of uniform diameter and suitable cross-section to receive coins of a given denomination, said body portion being closed at one end and having a flaring open mouth of larger diameter than the body portion of the other end, a cap normally closing

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ing the mouth of the sleeve, a coin slot in the wall of the sleeve at approximately the junction of the body portion and the flaring mouth, through which coins may be deposited in the tube, and a sleeve located in the mouth slidable therefrom into the body of the tube far enough to cover the coin slot and to form a closure therefor, said sleeve corresponding in outside diameter to the inside diameter of the body of the tube so that its upper end is spaced from the inner wall of the flaring mouth and constitutes a pilot for telescopic reception of the open end of a tubular coin package to facilitate transferring coins in the coin tube to the coin package.

5. A combination coin bank and packaging device according to claim 4, wherein the upper end of the sleeve is externally beveled.

6. A combination coin bank and packaging device comprising a tube having a body portion of uniform diameter and of suitable cross-section to receive coins of a given denomination, said body portion being closed at one end and having an open flaring mouth of larger diameter than the body portion at the other end, a cap normally closing the mouth of the tube, a coin slot in the wall through which coins may be deposited in the tube and a sleeve located in the mouth and slidable therein from a position covering the coin slot to a position uncovering it, said sleeve in the position covering the slot constituting a closure for the coin slot and in its uncovering position constituting a coin transfer to guide the coins from the tube into the package.

7. A combination coin bank and packaging device comprising a tube having a body portion of uniform diameter and a suitable cross-section to receive coins of a given denomination, said body portion being closed at one end and having an open flaring mouth of larger diameter than the body portion at the other end, a cap at the mouth of the tube normally closing it, a coin slot in the wall at the junction of the tube and its mouth, through which coins may be deposited in the tube, and a resilient split sleeve situated in the mouth with its lower end constricted within the body portion just above the coin slot, said sleeve being slidable inwardly to cover the coin slot and in this position constituting a closure for the slot, and said upper end of the sleeve being of smaller diameter than the mouth and constituting a pilot for telescopically and frictionally receiving the open end of a coin package to facilitate transfer of coins from the bank to the package.

8. A combination coin bank and packaging device according to claim 1, wherein the body of the tube has sight openings of smaller dimensions than the coins to be stored therein, through which the level of the coins in the tube may be ascertained.

9. A combination coin bank and packaging device according to claim 1, wherein the closed end of the tube has a small opening through it, through which an implement may be inserted to dislodge coins stuck in the tube.

10. A combination coin bank and packaging device according to claim 1, wherein the cover is hinged to the mouth by a dovetail slot and tongue and has a latch for holding it closed.

No references cited.