July 14, 1953 W. P. McCALLICK ET AL 2,645,397

COUNTING AND PACKING MACHINE

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Fig. 1.

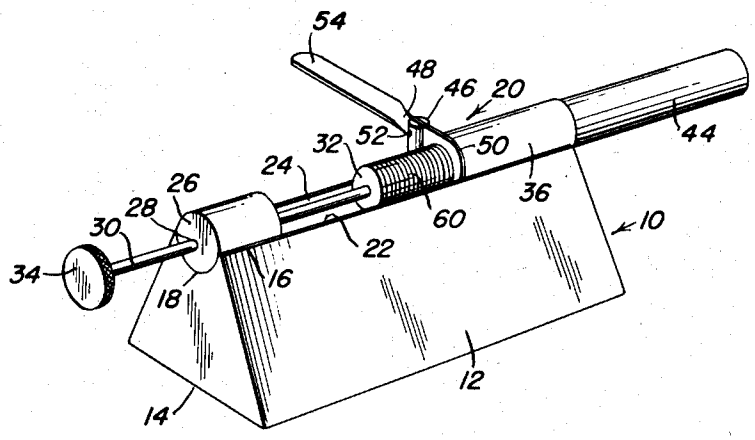


Fig. 2.

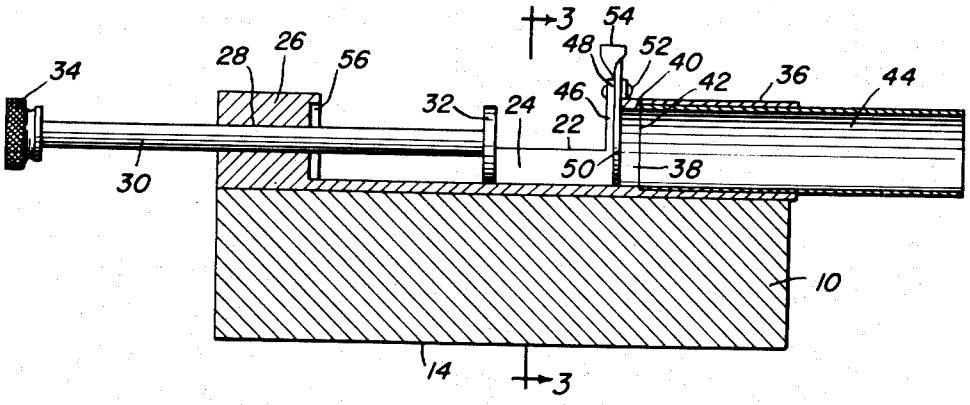
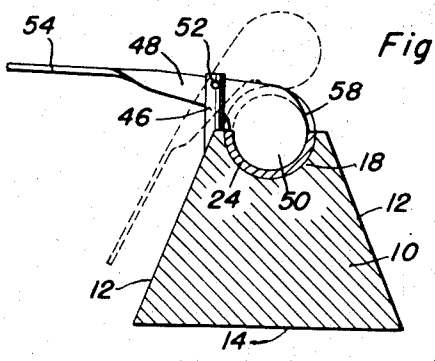


Fig. 3.



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COUNTING AND PACKING MACHINE

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2 Claims. (Cl. 226—14)

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This invention relates to new and useful improvements in counting and packaging machines and the primary object of the present invention is to provide a coin counter and packer including novel and improved means for ejecting a group of coins into a coin wrapper.

Another important object of the present invention is to provide a counting and packaging machine including a coin chamber, and ejector and novel and improved gauge means cooperating with said ejector to define a limited area for the coin chamber, so that it will be necessary to place a constant quantity of coins between the ejector and gauge means.

A further object of the present invention is to provide a coin packer and counter that is small and compact in structure and which is efficient in operation.

A still further object of the present invention is to provide a coin packer and counter that is simple and practical in construction, strong and reliable in use, neat and attractive in appearance, relatively inexpensive to manufacture, and otherwise well adapted to the purposes for which the same is intended.

Other objects and advantages reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a perspective view of the present coin packer and counter in use;

Figure 2 is a longitudinal vertical sectional view taken substantially through the center of the present coin packing and counting machine; and,

Figure 3 is a transverse vertical sectional view taken substantially on the plane of section line 3—3 of Figure 2.

Referring now to the drawings in detail, wherein for the purpose of illustration, there is disclosed a preferred embodiment of the present invention, the numeral 10 represents the base portion of the present coin packing and counting machine generally, comprising sloping or inclined side faces 12, a bearing face 14, and a reduced upper face 16.

Fixedly positioned in a longitudinal, concaved groove or recess 18 provided in the upper face 16 of the base portion 10, is the lower periphery of a tubular element which is designated generally by the numeral 20. The central and upper periphery of this tubular element is notched or cut-out as at 22 to provide a longitudinal coin engaging chamber or compartment 24.

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A bearing sleeve 26 integrally formed with the tubular element 20 at one end, is provided with an axial bore 28 that slidably engages a plunger or rod 30 having a pressure plate 32 fixed to its inner end for longitudinal movement in the coin engaging chamber 24. A knurled surface, finger engaging knob 34 is removably carried by the outer end of the plunger 30 and limits the inward movement of the plunger relative to the coin engaging chamber 24.

The unnotched portion 36 of the tubular element 20, disposed at the opposite end of the coin engaging chamber 24 from the bearing sleeve 26, forms an open chamber 38 that is provided with an annular stop shoulder 40 that frictionally engages one end 42 of a usual, cylindrical coin receiving wrapper 44.

Rigidly secured to the tubular element 20 adjacent the portion 36 thereof, is an upstanding support 46 having its upper end centrally notched to frictionally engage the reduced central portion 48 of a closure and gauge plate 50, the latter engaging the inner guiding edge of portion 36. A pivot pin 52 extends through the central portion 48 of the closure and gauge plate 50 and through the notched end of the support 46 to pivotally secure the closure plate to the support. The reduced portion 48 of the closure and gauge plate 50 is elongated and twisted to provide a finger engaging lever 54.

In practical use of the present invention, the plunger 30 is pulled outwardly, so that pressure plate 32 will frictionally engage an annular recess or seat 56 provided in the inner face of the bearing sleeve 26, and the closure and gauge plate 50 is pivoted inwardly so that the rounded edges 58 thereof will frictionally engage the inner periphery of the chamber 24 adjacent the portion 36. A group of coins 60 are inserted in the chamber 24 between the gauge and closure plate 50 and the pressure plate 32. It being understood, that the distance between the pressure plate and gauge plate is such as to permit a constant quantity of similar coins to be interposed therebetween. The closure and gauge plate 50 is then raised or actuated so that when the plunger 30 is forced inwardly, the coins will enter the portion 36 and more particularly the coins will be positioned in the wrapper 44.

Obviously, the chamber 24 may be provided with suitable graduations or indicia which the pressure plate 32 may oppose to determine the number or quantity of coins disposed between the pressure plate and the gauge plate 50.

In view of the foregoing description taken in

conjunction with the accompanying drawings it is believed that a clear understanding of the construction, operation and advantages of the device will be quite apparent to those skilled in this art. A more detailed description is accordingly deemed unnecessary.

It is to be understood, however, that even though there is herein shown and described a preferred embodiment of the invention the same is susceptible to certain changes fully comprehended by the spirit of the invention as herein described and the scope of the appended claims.

Having described the invention, what is claimed as new is:

1. A counting and packaging device comprising a base member, a tubular element secured to and paralleling said base member and having a cut-out portion intermediate its ends, a bearing sleeve integrally formed with one end of said tubular element, an upright fixed to said tubular element intermediate the ends of said tubular element, said upright having a notch in its upper end disposed transversely of said tubular element, a closure plate having a reduced portion pivoted in the notched end of said upright to permit movement of said closure into and out of said tubular element through said cut-out portion, a finger gripping portion integrally formed with the reduced portion of said closure plate, and a plunger having a cylindrical shank slidably carried by the sleeve and a flat surfaced head portion positioned within the cut-out portion for urging coins in the tubular element through the tubular element when the closure plate is moved out of the tubular element, said sleeve including an inner face having an annular recess therein receiving said head portion when coins are placed in the tubular

element between the sleeve and the closure plate.

2. A coin packaging machine comprising a base member, a tubular element carried by and paralleling said base member and having a notched portion intermediate its ends, a bearing sleeve integrally formed with one end of said tubular element, a plunger slidably mounted in said bearing sleeve and said tubular element for movement toward and away from said notched portion, said tubular element having an end portion remote from said sleeve and provided with an inner guiding edge adjacent the notched portion, and a closure plate pivoted to the tubular member adjacent the notched portion for movement into and out of said notched portion, said closure plate being in engagement with said inner guiding edge for reinforcement of the closure plate when the latter is pivoted to the notched portion.

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