Aug. 8, 1944. S. R. BLACKSTONE 2,355,201

COIN PACKER

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Fig. 1.

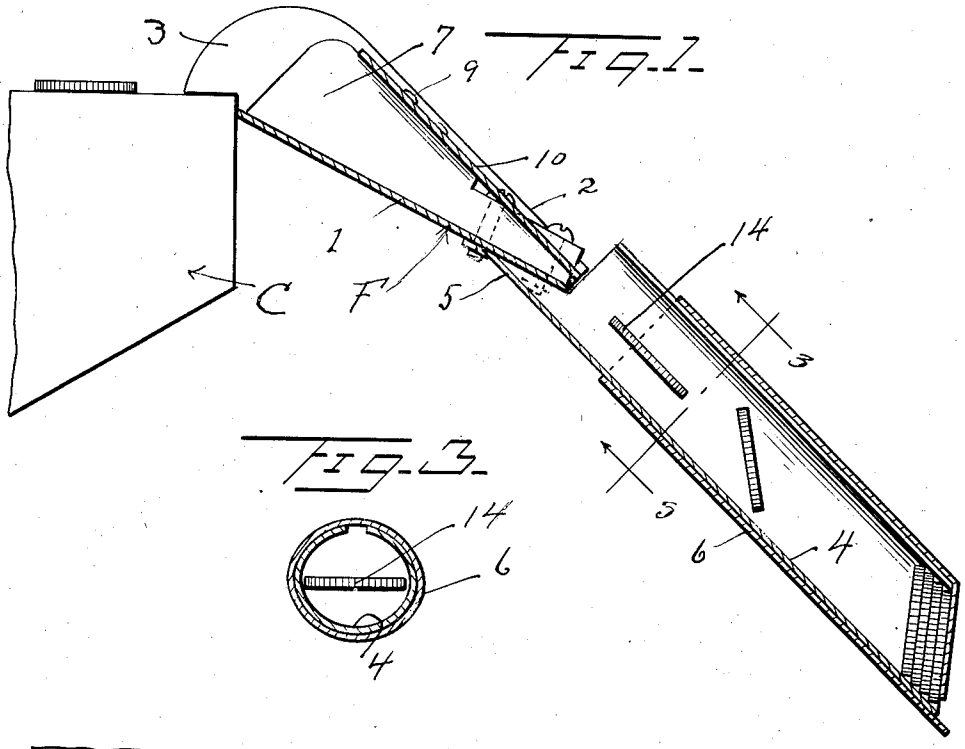
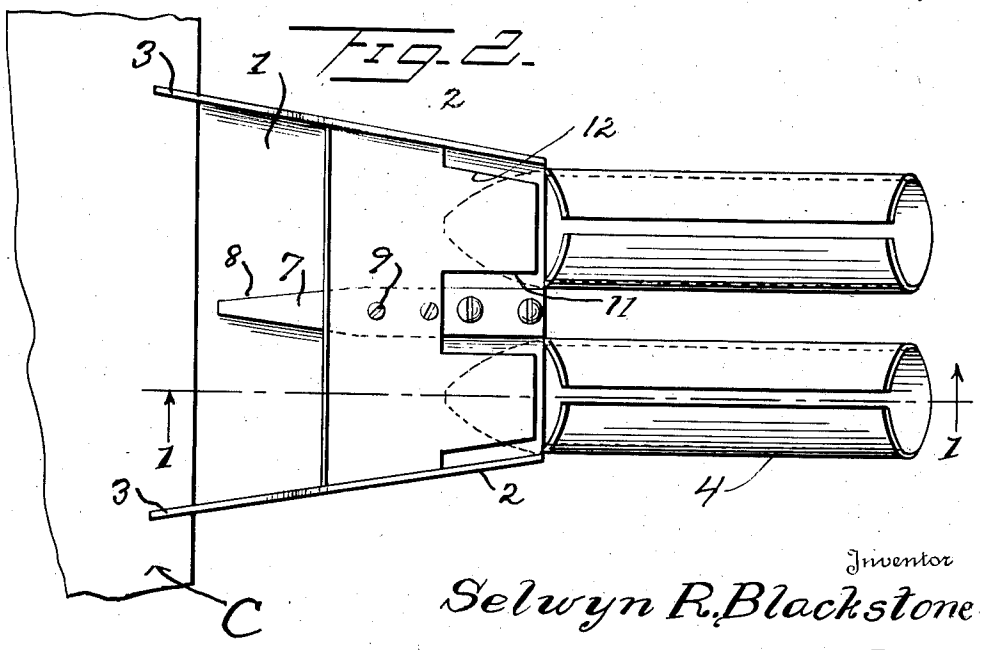


Fig. 3.

Fig. 2.



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COIN PACKER

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7 Claims. (Cl. 133—1)

This invention relates to a coin packer, and it is an object of the invention to provide a device of this kind including a plurality of chutes associated with a single funnel, thus permitting coins to be counted in multiple, and thus materially facilitating the time of packing.

It is also an object of the invention to provide a device of this kind wherein the chute is provided with a guard positioned in a plane substantially the same as the longitudinal axis of the chute or chutes of the device so that coins may be counted by hand into the funnel of the device in a manner to assure the coins, and particularly when counted at high speed within the funnel, will travel substantially level and horizontal with the longitudinal axes of the chutes, and thereby substantially eliminating clogging of the coins within the funnel.

The invention consists in the details of construction and in the combination and arrangement of the several parts of my improved coin packer whereby certain important advantages are attained, as will be hereinafter more fully set forth.

In order that my invention may be the better understood, I will now proceed to describe the same with reference to the accompanying drawing, wherein:

Figure 1 is a longitudinal sectional view of a coin packer constructed in accordance with an embodiment of the invention, the section being on substantially the line 1—1 of Figure 2;

Figure 2 is a view in top plan of the device as illustrated in Figure 1; and

Figure 3 is a sectional view taken through one of the chutes on substantially the line 3—3 of Figure 1.

As illustrated, in the accompanying drawing, C denotes a counter or the like and upon the upper surface of which are initially placed the coins to be counted and packed, and in connection with which surface is adapted to coact the funnel F of the packer. In the present embodiment of the invention the funnel F comprises a flat bottom wall 1 of desired dimensions and which has its side margins in convergence toward the delivery end thereof. These converging side margins are defined by the upstanding side walls 2 of desired height and which side walls at their upper or outer ends are extended to provide fingers 3 to engage upon the upper surface of the counter C or the like when the packer is held by one hand of the user. The bottom wall 1, as illustrated in Figure 2, is relatively wide to allow the connection therewith of a plurality of chutes 4. In the present embodiment of the invention these chutes 4 are two in number and arranged side by side in parallelism and in relatively close proximity one to the other. The inner end of each of the chutes 4 has its lower portion provided with an extension 5 to be soldered or otherwise effectively secured to the under surface of the lower or discharge end portion of the bottom wall 1 of the funnel F. These chutes 4 are also disposed downward with respect to the bottom wall 1 on an angle of approximately 19°, although, of course, this may be varied as practice may require.

Each of the chutes 4 as herein comprised is oval or elliptical in cross-section with the major axis relatively horizontal when the device is in use, and wherein the inside width of the chute 4 on this axis is slightly greater than the diameter of the coin to be received within the chute so that as the coins are received within the chute they will properly stack within the wrapper 6 applied to the chute 4 in a well-known manner. This wrapper 6 in itself forms no part of the present invention but is to be of a type generally in use.

The bottom wall of the funnel F at substantially its transverse center is provided therealong with an elongated partition strip 7 having the portions of the side walls thereof adjacent to the receiving end of the funnel converging, as at 8, toward said receiving end to facilitate the travel of the coins down through the funnel F at opposite sides of this partition strip 7. This is of particular advantage as it enables the device to be used when the coins on the counter C are counted by hand two at a time into the funnel whereby the desired packing of the coins is materially expedited.

Anchored, as at 9, to the rear portion of the top surface of the partition strip or member is a flat guard plate 10 and this rear top surface of the strip or member 7 is disposed on such an incline or angle toward the discharge end of the funnel F to have this guard plate 10 in substantially the same plane as the substantially horizontally disposed axes of the chutes 4. This plate 10 bridges the space between the side walls 2 of the funnel, and the lower central portion of the plate 10 is cut away, as at 11, to allow the plate 10 to straddle the lower portion of the strip or member 7 to assure the proper placement of the guard plate 10. The lower side marginal portions of the guard plate 10 are also cut away, as at 12, forming a tongue at the mouth of the chute against which the coins strike and by which they are flattened out in their path of travel to enter

the chute lying in the central longitudinal plane of the chute. For this purpose the cut-out portion 11 is of a width in excess of the width of the adjacent portion of the strip or member 7, as is illustrated in Figure 2.

In practice, the coins are counted by hand into the funnel F much faster than gravity can handle them. However, the force of momentum created by the coins counted by high speed into the funnel F cause said coins to hug the under side of the guard plate 10 and travel in what may be termed a level and horizontal manner, as at 14, into each of the chutes 4. In other words, the coins will be received within the chute 4 in proper alignment with the major transverse axis of a chute.

From the foregoing description it is thought to be obvious that a coin packer constructed in accordance with my invention is particularly well adapted for use by reason of the convenience and facility with which it may be assembled and operated.

I claim:

1. A coin packer comprising a relatively wide tapered coin receiving funnel, a pair of chutes secured to and extending from the discharge end of the funnel, said chutes being each of elliptical cross-section with the major axes thereof extending across the width of the funnel, a partition lengthwise of and within the funnel between adjacent chutes, and a substantially flat guard plate forming the top side of the funnel as the packer is held for use and in substantially the same plane as the major axes of the chutes.

2. A coin packer comprising a relatively wide tapered coin receiving funnel, a pair of chutes secured to and extending from the discharge end of the funnel, said chutes being each of elliptical cross-section with the major axes thereof extending across the width of the funnel, a partition lengthwise of and within the funnel between adjacent chutes, a substantially flat guard plate forming the top side of the funnel as the packer is held for use and in substantially the same plane as the major axes of the chutes, and means securing the guard plate to the partition.

3. A coin packer comprising a relatively flat tapered funnel, a chute extending from the discharge end of the funnel and oblique to the line of coin discharge therefrom, said chute being elliptical in cross-section with its major axis extending across the width of the funnel, and a flat guard plate forming the top side of the funnel as the packer is held for use and substantially in the plane of the said major axis of the chute.

4. A coin packer comprising a relatively wide flat funnel having a bottom wall and a top plate, said top plate and bottom wall being spaced apart at the discharge end of the funnel a distance only slightly greater than the thickness of a coin, a transversely elliptical coin chute secured at one end to the discharge end of the funnel, the funnel and chute being relatively disposed to have the bottom wall of the funnel oblique to the longitudinal axis of the chute and below the major axis of the elliptical cross section thereof with said top plate lying in the longitudinal axis of the chute.

5. A structure as set forth in claim 4 in which the top plate is cut away at its sides at the discharge end of the funnel to form a tongue against which coins impinge and by which the coins are caused to flatten out to enter the chute in the plane of the longitudinal axis thereof.

6. A coin packer as set forth in claim 4 in which the chute at the end remote from the funnel is cut oblique to the length of the chute, the edge of said end lying in a vertical plane when the chute is in working position.

7. A coin packer as set forth in claim 4 in which the connecting means between the chute and the bottom wall of the funnel comprises an integral tongue extension of the wall of the chute disposed beneath and secured to the bottom wall of the funnel.

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