

March 22, 1932.

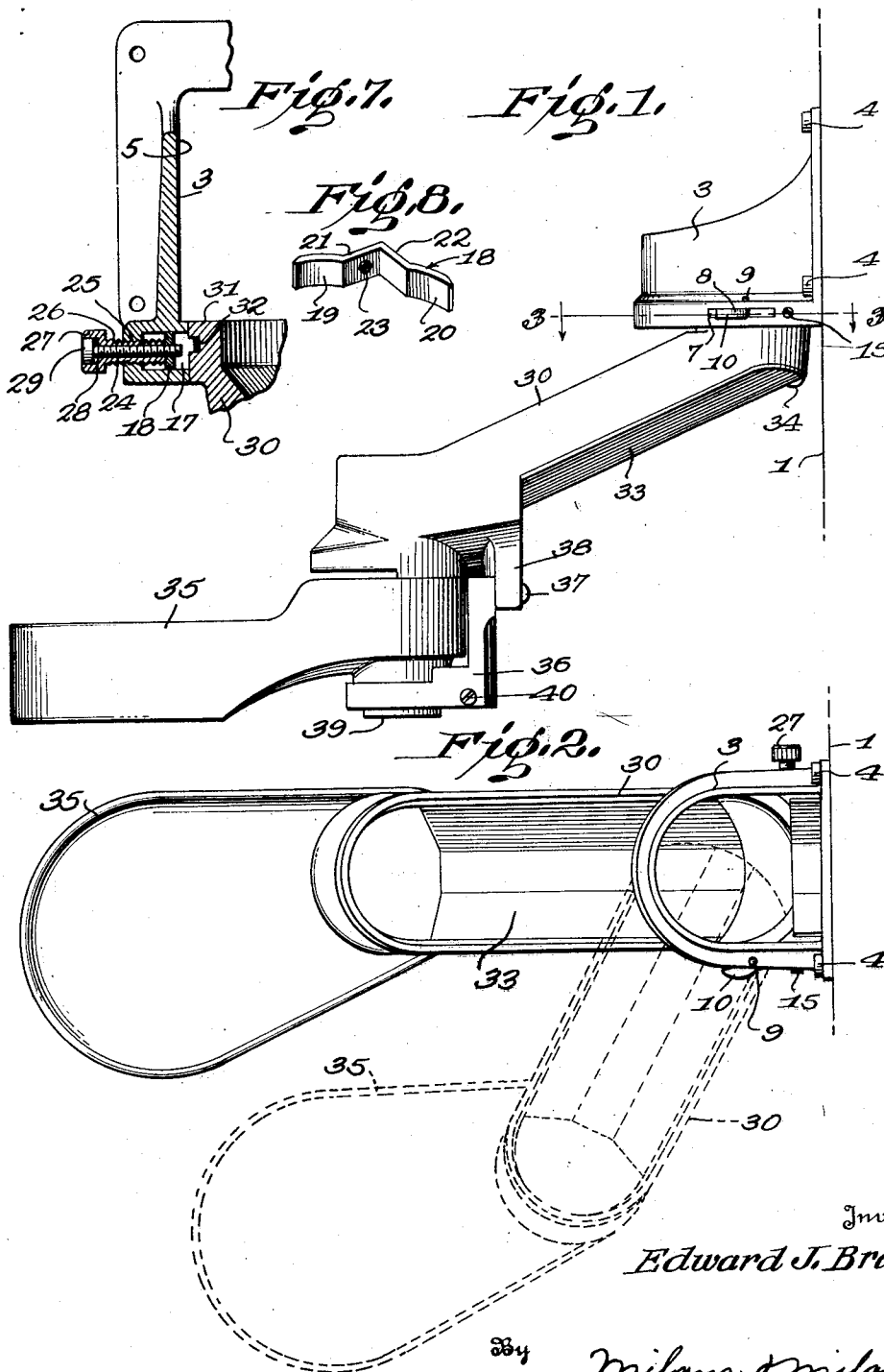
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1,850,258

MONEY HANDLING MACHINE

Filed Feb. 18, 1930

2 Sheets-Sheet 1



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Fig. 3.

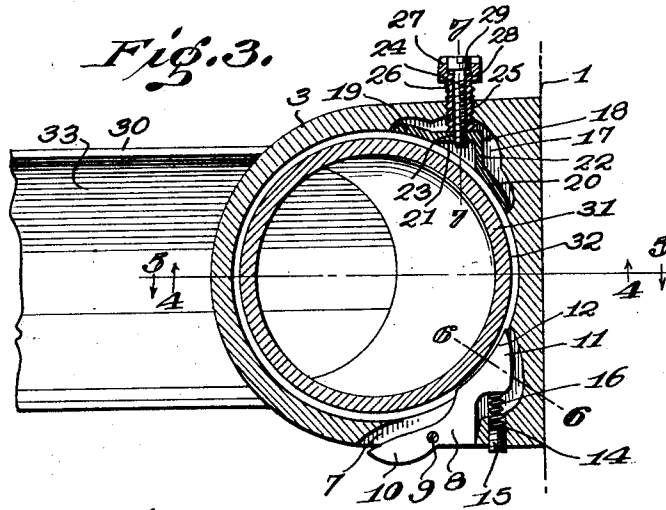


Fig. 4.

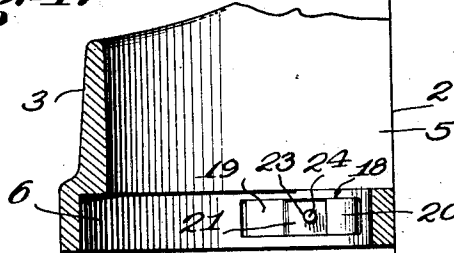


Fig. 5.

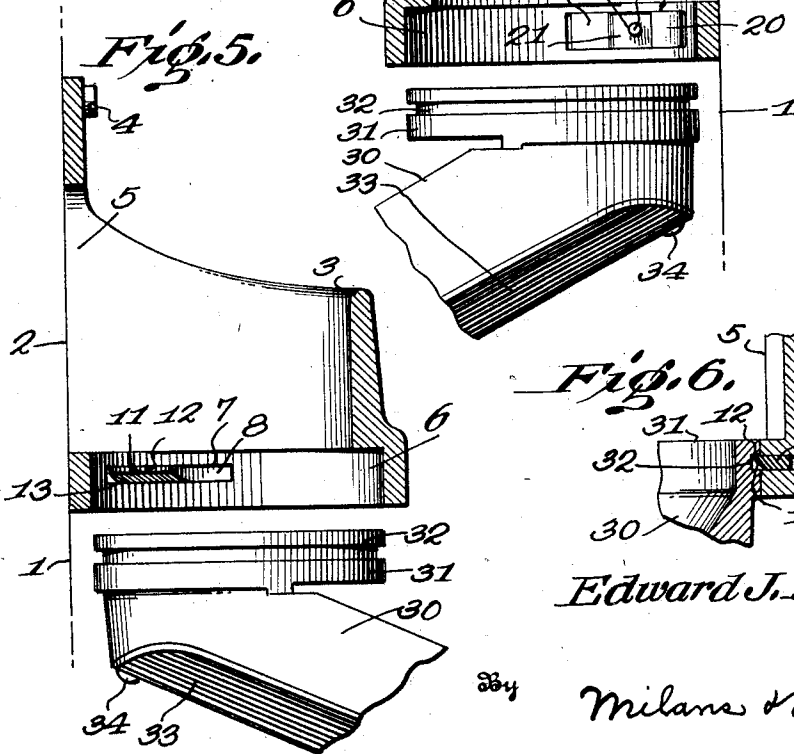
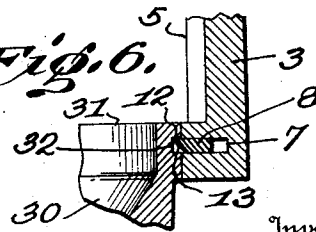


Fig. 6.



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UNITED STATES PATENT OFFICE

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MONEY HANDLING MACHINE

Application filed February 18, 1930. Serial No. 429,365.

My invention relates to new and useful improvements in money handling machines of that type in which a coin tray or magazine is provided for supporting a plurality of stacks of coins adapted to be ejected or discharged by the operation of a key or keys and delivered to suitable position to be received by the operator of the machine or a customer or purchaser or the like, and the principal object of the present invention resides in the provision of a novel form of spout or chute which receives the ejected or discharged coins and novel means whereby the spout or chute is detachably connected to the machine and adjustable into various positions or angles relative to the machine.

A further object of the invention consists in the provision of the novel form of spout or chute and cooperating bracket, the bracket being adapted to be connected to the machine, adjacent an opening formed therein, and through which the ejected coins are discharged, and the spout or chute being adapted for connection to or disconnection from the bracket by a vertical movement relative thereto and while in any of its angularly adjusted positions relative to the machine.

Another object of the invention resides in the provision of means whereby the spout or chute may be swung relative to the bracket into various positions relative to the machine and the provision of means whereby the spout or chute may be locked or held in its various positions of adjustment.

With the above and other objects in view, which will appear as the description proceeds, my invention consists in the novel details of construction and arrangement of parts, described in the following specification and illustrated in the accompanying drawings, and while I have illustrated and described the preferred embodiments of the invention, as they now appear to me, it will be understood that such changes may be made as will fall within the scope of the appended claims.

In the drawings:—

Fig. 1 is a side elevation.

Fig. 2 is a top plan.

Fig. 3 is a fragmental horizontal section on the line 3—3 of Fig. 1.

Fig. 4 is a vertical section through the supporting bracket or housing on the line 4—4 of Fig. 3, looking in the direction of the arrows, with a portion of the chute or spout shown in side elevation.

Fig. 5 is a view similar to Fig. 4 on the line 5—5 of Fig. 3 looking in the direction of the arrows.

Fig. 6 is a section on the line 6—6 of Fig. 3.

Fig. 7 is a section on the line 7—7 of Fig. 3; and

Fig. 8 is a detail in perspective showing the shoe or locking member for holding the spout or chute in its adjusted positions relative to the supporting or connecting bracket.

In the drawings 1 indicates an outline of one face of the coin holding machine, preferably one end thereof, having an opening 2 therein through which the coins are delivered or discharged into the spout or chute to be later described. At 3 I have illustrated my improved form of bracket or housing adapted to be connected to the end 1 of the machine by means of the screws 4 or other suitable fastenings and this bracket or housing is provided in its rear wall or face with the opening 5 aligning with the opening 2. The top of the bracket or housing is preferably open, as shown more particularly in Figs. 2 and 5 of the drawings, and the bottom end thereof is recessed as shown at 6 to receive the upper end of the chute or spout to be later described. One side wall of the bracket or housing is provided with an elongated opening 7 in which a latch 8 is pivotally connected at 9, one end of the latch, as shown at 10, projecting outwardly upon the surface of the bracket or housing, as shown more particularly in Figs. 2 and 3 of the drawings to provide a finger engaging portion for manipulation of the latch in a manner to be later described. The opposite or inner end of the latch designated 11 has its inner edge 12 formed on the arc of a circle, for a purpose which will later be readily apparent, and is inwardly beveled as shown at 13 more particularly in Fig. 6 of the drawings. This beveled edge 13 facilitates the insertion of the end of the

spout or chute in a manner to be later described. An opening 14 is also formed in the wall of the bracket or housing, adjacent the elongated opening 7, and is inwardly threaded to receive the screw plug 15 which forms a bearing for one end of the coiled spring 16, the opposite end of the spring engaging the latch 8, adjacent the inner end thereof, and normally holding the inner end of the latch inwardly as shown more particularly in Fig. 3 of the drawings.

Formed in the opposite wall of the bracket or housing, to that having the elongated opening 7, is a recess 17 in which is positioned the friction locking shoe indicated generally at 18. This locking shoe is provided, at opposite ends, with the curved engaging portions 19 and 20 and intermediate these engaging portions 19 and 20 is of angular formation to provide the arms 21 and 22, the arm 21 having the threaded opening 23 in which the inner end of a screw 24 engages. A threaded opening 25 leads from the outer surface of the bracket or housing and communicates with the recess 17. A screw 26 is received in this threaded opening 25 and is provided with a longitudinally extending opening to receive the screw 24. The opening in the screw 26 will be of such a diameter as to allow sliding movement of the screw 24 therein. The outer end of the screw 26 is formed with the head 27 recessed as shown at 28 to receive the head 29 of the screw 24. As shown more particularly in Fig. 3 of the drawings, when the shoe 18 is in its innermost or locking position the head 29, of the screw 24, will be slightly spaced from the bottom surface of the recess 28 in the head 27 of the screw 26. This allows an initial movement of the screw 26 relative to the screw 24 when releasing the shoe 18 and when the bottom surface of the recess 28 engages the head 29, of the screw 24, the screw 24 will be operated with the screw 26 and drawn outwardly to draw the shoe 18 rearwardly into the recess 17. When the screw 26 is operated in the opposite direction the inner end thereof will engage the angular arm 21 of the shoe and force the shoe in a direction inwardly of the bracket or outwardly from the recess to engage the chute or spout to be later described and lock the same in its adjusted positions.

At 30 I have illustrated an open top spout or chute formed, at its upper end, with the ring-like portion 31 adapted to be received within the recess 6 formed in the bottom of the bracket or housing 3. The ring-like portion 31 is provided with the circumferentially extending groove 32 to receive the inner end 11 of the latch member 8, as shown more particularly in Fig. 3 of the drawings, and when the upper end of the chute or spout with the ring-like portion 31, is moved in a face-wise direction relative to the bottom of the bracket or housing 3 the ring-like

portion will be received within the recess 6 and the upper end of the ring-like portion will engage the beveled surface 13 of the inner end of the latch 8 and ride over the same to cause the inner end of the latch to be pressed inwardly against the action of the coiled spring 16. When the ring-like portion is fully inserted into the recessed portion of the bracket or housing the spring 16 will cause the inner end of the latch member to snap into the groove 23 and thereby connect the upper end of the chute or spout to the bracket or housing, but at the same time allowing rotation of the ring-like portion within the recess 6 so that the spout or chute may be swung into different positions or angles relative to the machine to discharge the coins at the desired point. It will be understood that when initially connecting the spout or chute to the bracket that the screw 26 will have been adjusted to draw the shoe 18 inwardly of the recess 17 so that it will not engage with the ring-like portion 31. After the spout or chute has been adjusted to the desired position the screw 26 will be adjusted to force the shoe 18 outwardly so that the engaging portions 19 and 20 thereof will engage the outer surface of the ring-like portion 31 and thereby lock the spout or chute against swinging movement or rotation of the ring-like portion 31 within the recess 6. The ring-like portion is held by the frictional engagement of the shoe therewith. I wish to lay particular stress on the fact that the spout or chute may be connected to the bracket while in any position of adjustment and is merely connected by a facewise movement of the end thereof relative to the bracket. When the spout or chute is to be detached the shoe will be released and then by engaging the finger portion 10, of the latch member 8, the inner end of the latch member will be withdrawn from the groove 32 and the spout or chute may be disengaged from the bracket by a downward movement thereof.

The ring-like portion 31 forms an opening at the top of the spout or chute aligned with the bottom opening of the bracket or housing so that the coins discharged through the opening 2 of the machine may readily pass into the chute or spout. The spout is formed with the removable bottom plate 33 secured in position by means of the screws 34 or other suitable fastenings.

A receiving cup 35 is pivotally connected to the lower end of the spout or chute 30, by means of the bracket 36, detachably connected by means of the screws 37 or other suitable fastenings to the depending lug 38 formed on the spout or chute. The cup 35 is provided, on its bottom surface with a projection 39 which extends through the bottom surface of the bracket 36, as shown more particularly in Fig. 1 of the drawings. The

cup may be swung into various adjusted positions by loosening the screw 40 carried by the bracket 36 and when adjusted to the desired position the screw will be again tightened.

From the above it is thought that the construction and operation will be clearly understood and it will be seen that I have provided a simple construction whereby a spout or chute may be readily connected to or disconnected from the machine while in any adjusted position and it is not necessary to secure any particular position of the spout or chute, relative to the machine or the bracket secured thereto before connecting or disconnecting. At the same time the spout or chute may be locked and held in any of its adjusted positions.

I will not claim herein that branch of my invention relating to the adjustability of the cup and spout whereby the same may be swung to various positions in as much as this constitutes subject matter disclosed and claimed in my co-pending application Serial No. 715,661, filed May 24, 1924.

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

1. The combination with a coin holding machine having an outlet for liberated coins, of a delivery spout for receiving the coins, and a spring latch engageable with the spout for detachably connecting the same to the machine, the latch permitting adjustment of the spout relative to the machine while maintaining the connection between the spout and machine.

2. The combination with a coin holding machine having an outlet for liberated coins, of a delivery spout for receiving the coins, said spout having a groove formed therein, and means engageable in the groove for detachably connecting the spout to the machine, said means permitting adjustment of the spout relative to the machine while maintaining engagement of the means in the groove.

3. The combination with a coin holding machine having an outlet for liberated coins, of a delivery spout for receiving the coins, said spout having a groove formed therein, and a spring latch engageable in the groove for detachably connecting the spout to the machine, said latch permitting adjustment of the spout relative to the machine while maintaining engagement of the latch in the groove.

4. The combination with a coin holding machine having an outlet for liberated coins, of a delivery spout for receiving the coins and adjustable to different points of delivery, and a pivoted member engageable with the spout for connecting the same to the machine or disconnecting the same therefrom while in any position of adjustment.

5. The combination with a coin holding machine having an outlet for liberated coins,

of a delivery spout for receiving the coins and adjustable to different points of delivery, a pivoted member engageable with the spout for connecting the same to the machine or for disconnecting the same therefrom while in any position of adjustment, and means engageable with the spout for holding the same in its various positions of adjustment.

6. The combination with a coin holding machine having an outlet for liberated coins, of a delivery spout for receiving the coins and adjustable to different points of delivery, a pivoted member engageable with the spout for connecting the same to the machine or for disconnecting the same therefrom while in any position of adjustment, and means frictionally engageable with the spout for holding the same in its various positions of adjustment.

7. The combination with a coin holding machine having an outlet for liberated coins, of a bracket connected to the machine, a delivery spout for receiving the coins discharged through the outlet, and a spring controlled latch carried by the bracket and engageable with the spout for detachably connecting the spout to the bracket and to permit horizontal adjustment of the spout relative to the housing in any direction.

8. The combination with a coin holding machine having an outlet for liberated coins, of a bracket connected to the machine, a delivery spout for receiving the liberated coins through the outlet, a latch member adapted to engage the spout and permitting adjustment thereof to various positions relative to the machine, and means carried by the bracket and engageable with the spout for holding the same in its adjusted positions.

9. The combination with a coin holding machine having an outlet for liberated coins, of a bracket connected to the machine, a delivery spout for receiving the liberated coins through the outlet, a latch member adapted to engage the spout and permitting adjustment thereof to various positions relative to the machine, and means carried by the bracket and frictionally engageable with the spout for holding the same in its adjusted positions.

10. The combination with a coin holding machine having an outlet for liberated coins, of a bracket connected to the machine, a delivery spout for receiving the coins discharged through the outlet, said spout having a ring-like portion adapted to be received in the bracket, and a spring latch engageable with the ring-like portion for connecting the spout to the bracket but allowing adjustment thereof into various positions relative to the machine.

11. The combination with a coin holding machine having an outlet for liberated coins, of a bracket connected to the machine, a delivery spout for receiving the coins discharged through the outlet, said spout

having a ring-like portion adapted to be received in the bracket, a spring latch engageable with the ring-like portion for connecting the spout to the bracket but allowing adjustment thereof into various positions relative to the machine, and means carried by the bracket and engageable with the ring-like portion of the spout for holding the spout in its various positions of adjustment.

12. The combination with a coin holding machine having an outlet for liberated coins, of a bracket connected to the machine, a delivery spout for receiving the coins discharged through the outlet, said spout having a ring-like portion adapted to be received in the bracket, a spring latch engageable with the ring-like portion for connecting the spout to the bracket but allowing adjustment thereof into various positions relative to the machine, and adjustable means carried by the bracket and engageable with the ring-like portion of the spout for holding the spout in its various positions of adjustment.

13. The combination with a coin holding machine having an outlet for liberated coins, of a bracket connected to the machine, a spout adapted to receive the coins discharged through the outlet, said spout having a ring-like portion adapted to be received within the bracket and provided with a circumferentially extending groove, and means carried by the bracket and engageable in the groove for connecting the spout to the bracket and allowing adjustment thereof into various positions relative to the machine.

14. The combination with a coin holding machine having an outlet for liberated coins, of a bracket connected to the machine, a spout adapted to receive the coins discharged through the outlet, said spout having a ring-like portion adapted to be received within the bracket and provided with a circumferentially extending groove, and a spring latch carried by the bracket and engageable in the groove for connecting the spout to the bracket and allowing adjustment thereof into various positions relative to the machine.

15. The combination with a coin holding machine having an outlet for liberated coins, of a bracket connected to the machine, a delivery spout for receiving the coins discharged through the outlet, said spout having a ring-like portion adapted to be positioned relative to the bracket and having a circumferentially extending groove formed therein, a member carried by the bracket and engageable in the groove of the ring-like portion of the spout for connecting the spout to the bracket but allowing adjustment thereof to various positions relative to the machine, and a member carried by the bracket and engageable with the ring-like portion for holding the spout in its adjusted positions.

16. The combination with a coin holding

machine having an outlet for liberated coins, of a bracket connected to the machine, a delivery spout for receiving the coins discharged through the outlet opening, said spout having a ring-like portion adapted to be positioned relative to the bracket, means for detachably connecting the spout to the bracket and allowing adjustment thereof, and a member carried by the bracket and adapted to be engaged with the ring-like portion of the spout for holding the same in its adjusted positions, the engaging face of said member being shaped to conform to the curvature of the ring-like portion of the spout.

17. The combination with a coin holding machine having an outlet for liberated coins, of a bracket connected to the machine, a delivery spout for receiving coins discharged through the outlet, means for adjustably connecting the spout to the bracket, a member carried by the bracket for frictional engagement with the spout to hold the same in adjusted position, and means for adjusting said member towards or away from the spout.

18. The combination with a coin holding machine having an outlet for liberated coins, of a bracket connected to the machine, a delivery spout for receiving the liberated coins discharged through the outlet, means for adjustably connecting the spout to the bracket, and a screw operated member carried by the bracket and engageable with the spout for holding the same in adjusted positions.

19. The combination with a coin holding machine having an outlet for liberated coins, of a bracket connected to the machine and having a bottom opening, a delivery spout adapted to receive the coins discharged through the outlet, and means permitting an end of the spout to be connected to the bracket by a facewise movement relative thereto while at any position of adjustment relative to the machine to position the end of the spout to be received in the bottom opening of the bracket.

20. The combination with a coin holding machine having an outlet for liberated coins, of a bracket connected to the machine and having an opening in the bottom thereof, a delivery spout adapted to receive the coins discharged through the outlet, said delivery spout having a ring-like portion at the top adapted to be received within the opening of the bracket, and means carried by the bracket and adapted to be engaged with the ring-like portion of the spout to connect the spout to the bracket, when the spout is moved vertically to position the ring-like portion within the opening of the bracket while at any position of adjustment relative to the machine.

21. The combination with a coin handling machine having an outlet for liberated coins, of a bracket connected to the machine, a spout for receiving the coins discharged

through the outlet, and means carried by the bracket and engageable with the spout for detachably connecting the same thereto, said means permitting the spout to be connected to the bracket by a facewise movement relative thereto and permitting free horizontal adjustment of the spout relative to the bracket while still connected thereto.

22. The combination with a coin handling machine having an outlet for liberated coins, of a bracket connected to the machine, a spout for receiving the coins discharged through the outlet, means carried by the bracket and engageable with the spout for detachably connecting the same thereto, said means permitting the spout to be connected to the bracket by a facewise movement relative thereto and permitting free horizontal adjustment of the spout relative to the bracket while still connected thereto, and means carried by the bracket and adapted to be engaged with the spout for holding the same in any position of adjustment.

In testimony whereof I hereunto affix my signature.

EDWARD J. BRANDT.