Jan. 23, 1934. E. J. BRANDT 1,944,313

MONEY HANDLING MACHINE

Filed May 24, 1924 4 Sheets-Sheet 1

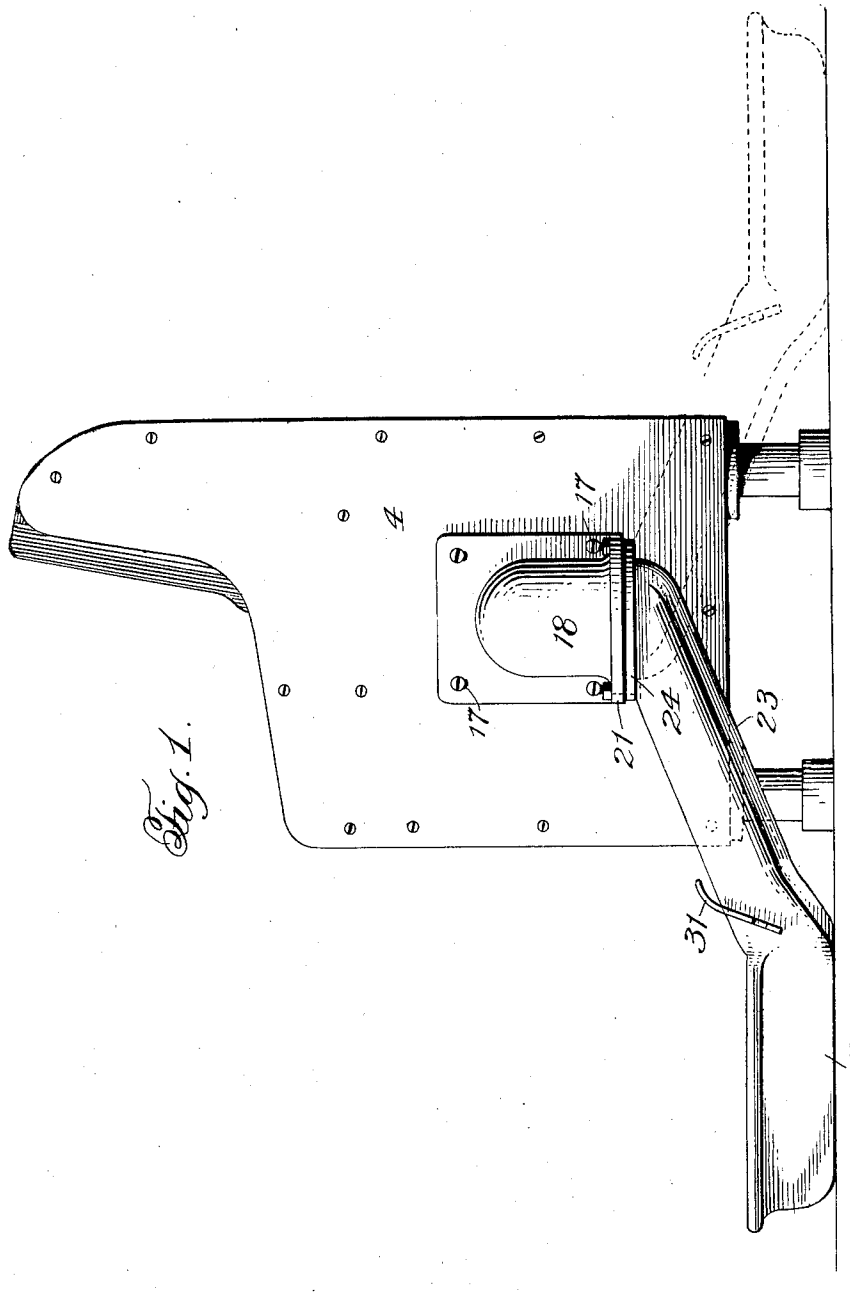


Fig. 1.

Inventor:

Witness:
Jas. E. Hutchinson.

Edward J. Brandt,
By Milans & Milans Attorneys

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MONEY HANDLING MACHINE

Filed May 24, 1924 4 Sheets-Sheet 2

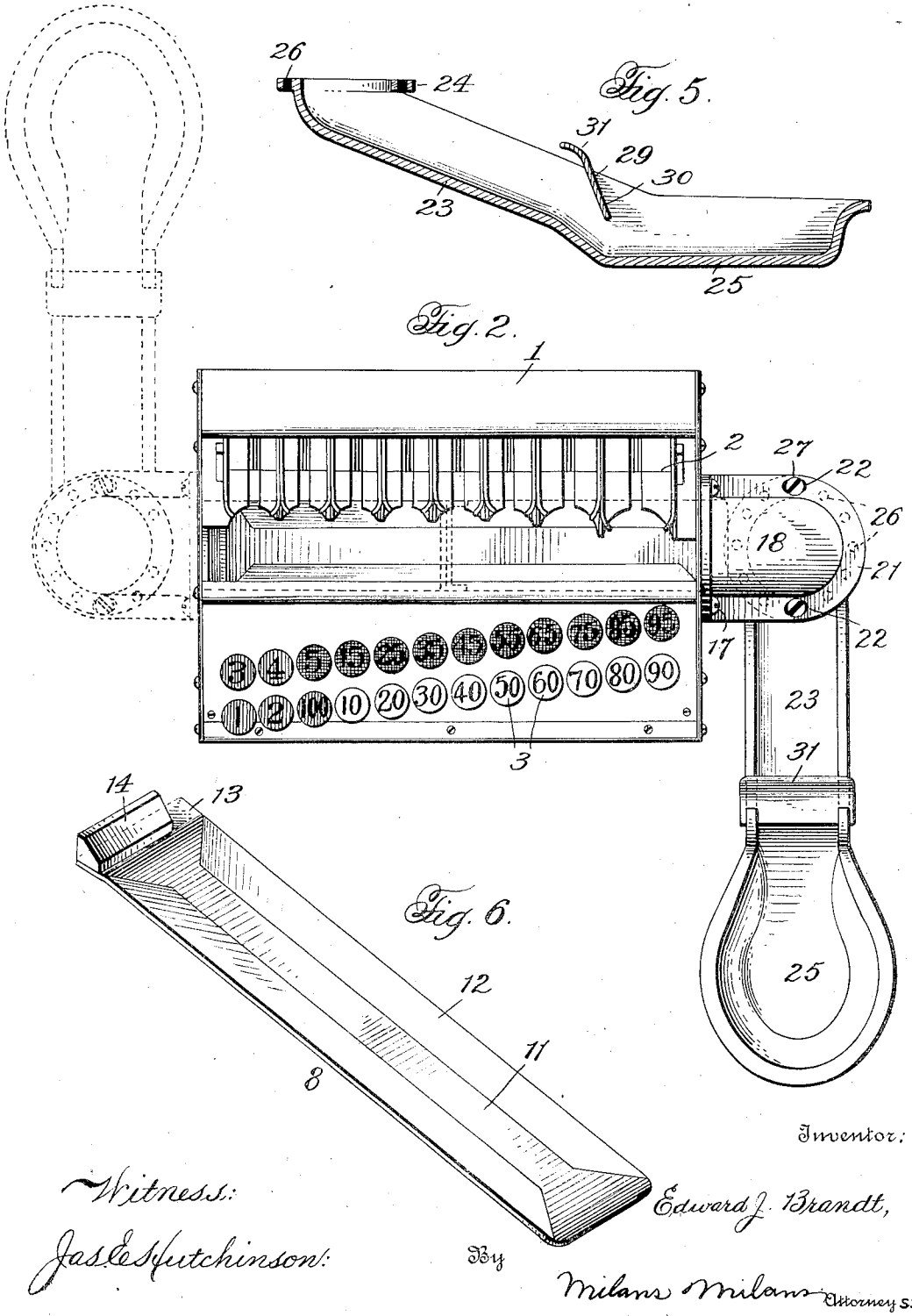


Fig. 5.

Fig. 2.

Fig. 6.

Inventor:

Witness:

Jas. E. Hutchinson.

Edward J. Brandt,

By

Milans & Milans

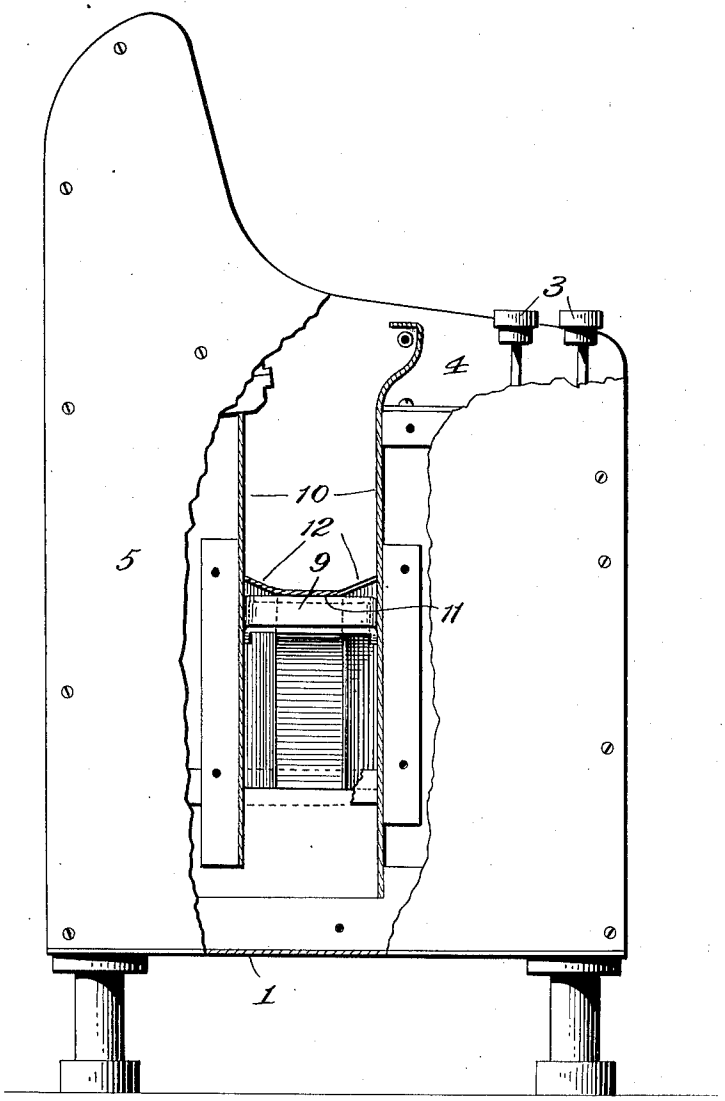
Attorneys:

Jan. 23, 1934. E. J. BRANDT 1,944,313

MONEY HANDLING MACHINE

Filed May 24, 1924 4 Sheets-Sheet 3

Fig. 3.



Witness:
Jas. E. Hutchinson.

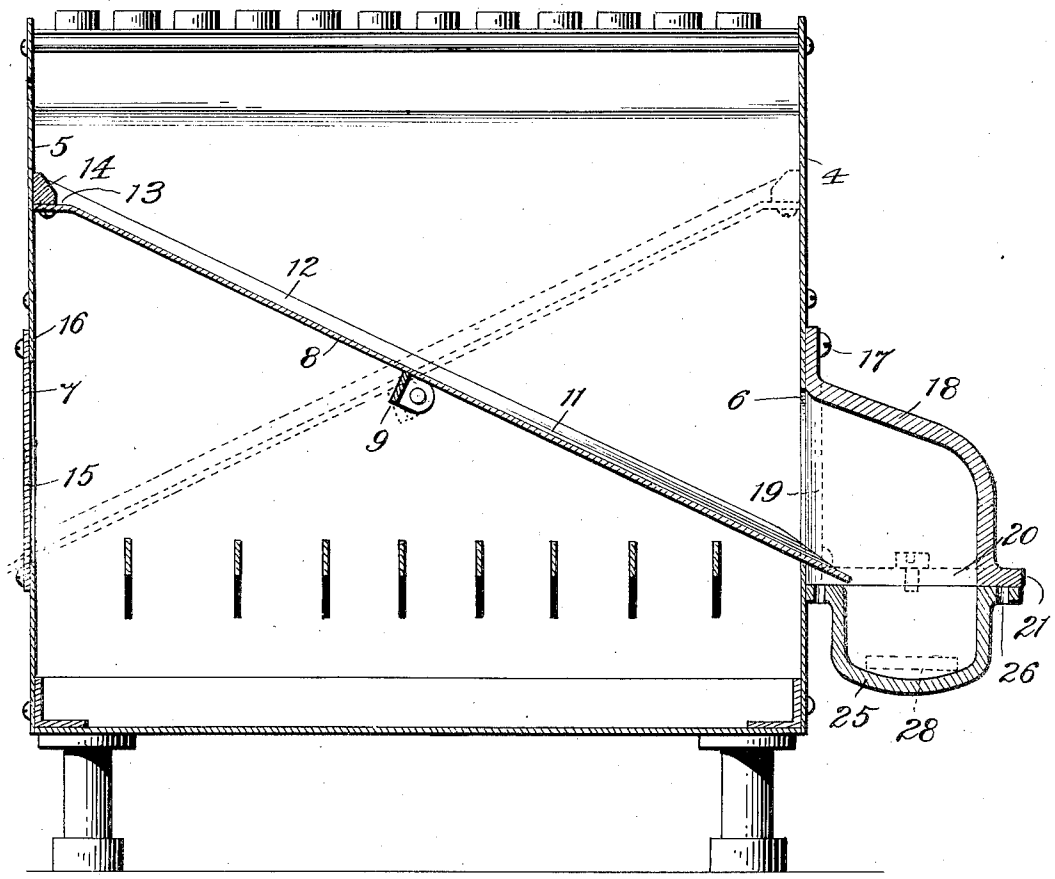
Inventor:
Edward J. Brandt,
By Milans & Milans Attorneys.

Jan. 23, 1934. E. J. BRANDT 1,944,313

MONEY HANDLING MACHINE

Filed May 24, 1924 4 Sheets-Sheet 4

Fig. 4.



Inventor:

Witness:
Jas. E. Hutchinson.

Edward J. Brandt,

By Milans & Milans Attorneys.

Patented Jan. 23, 1934

1,944,313

UNITED STATES PATENT OFFICE

1,944,313

MONEY HANDLING MACHINE

Edward J. Brandt, Watertown, Wis., assignor to Brandt Automatic Cashier Company, Watertown, Wis., a corporation of Wisconsin

Application May 24, 1924. Serial No. 715,661

3 Claims. (Cl. 193—2)

My invention relates to new and useful improvements in money handling machines of the well-known "Brandt" type wherein coins are adapted to be delivered from a coin tray or magazine by operating keys bearing suitable designating marks to deliver the proper number of coins desired, the coins being delivered in position to be received by the operator of the machine or by a customer, and the principal object of the present invention resides in the provision of a novel form of spout and receiving cup which may be adjusted to various positions so as to deliver the coins from the machine in such positions or directions as will be convenient for the removal of the coins by the operator or by a customer.

A further object of the invention resides in the provision of interchangeable means whereby the spout may be connected to either end of the machine, an adjustable chute being provided to deliver the coins to either end of the machine and into the coin receiving adjustable spout and cup.

Another object consists in forming the bottom of the adjustable spout concaved transversely so as the coins slide over the bottom surface of the spout only the edges of the coin will engage the surface.

As a further object I provide the spout with a novel form of guard or deflector which will prevent too rapid discharge of the coins through the spout into the cup as would allow them to jump over the edges of the cup. In other words the deflector or guard breaks the fall of the coins and delivers them into the cup for easy removal of the operator or customer.

With the above and other objects in view which will be readily appreciated from the description to follow 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 an end view.

Fig. 2 is a top plan.

Fig. 3 is an end view, opposite to that shown in Fig. 1 with parts broken away to show interior parts.

Fig. 4 is a longitudinal vertical section through the machine.

Fig. 5 is a longitudinal vertical section through the spout and cup; and

Fig. 6 is a perspective of the discharge chute which receives the coins discharged from the tray or magazine and directs them into the spout.

In the drawings 1 indicates the body portion of the machine which supports the coin tray or magazine 2 from which the coins are adapted to be discharged upon operation of the keys 3, it being thought unnecessary to describe or illustrate the specific form of coin ejecting or discharge mechanism for the same forms no part of the present invention. Secured to the body 1 by means of screws or other suitable fastenings are the end plates 4 and 5, the plate 4 being provided with the opening 6 and the plate 5 with the opening 7, these openings being in alignment, as shown more particularly in Fig. 4 of the drawings, for a purpose which will be later described. Supported in the body 1, in position to receive the coins which are ejected from the coin tray or magazine 2 is a chute 8 which is adapted to be so inclined as to discharge the coins from either end of the machine as disclosed more particularly in Fig. 4. In this figure of the drawings I have illustrated in full lines the chute inclined to discharge the coins through the opening 6 in the end plate 4 and in dotted lines I have shown the position of the chute when it is desired to discharge the coins through the opening 7 in the plate 5. The chute is supported upon the bracket 9 which may be positioned as shown either in full or dotted lines in Fig. 4 this bracket being secured to and between the plates 10 forming a part of the body as more particularly illustrated in Fig. 3 of the drawings. The chute is formed with the substantially flat longitudinally extending bottom portion 11 and the upwardly inclined sides 12 the frictional engagement of the sides preventing longitudinal movement of the chute between the plates 10 and holding the same in its adjusted positions. The upper end of the chute has the substantially horizontal portion 13 which carries the block 14 which will engage the end plates as shown, this block aiding in forming a tight fit between the end of the chute and the end plate and assisting in directing the coins as they drop from the tray or magazine onto the chute. When the chute is positioned to extend through the opening 6 in the plate 4 the opening 7 in the plate 5 will be closed by means of a plate 15 detachably connected to the end plate 5 by means of the screws 16 or other suitable fastenings. This plate 15, if desired, may be in the form of a name plate

bearing the name or trade-mark of the manufacturer with such other data as may be desired. The lower end of the chute 8 will extend through the opening 6 in the plate 4 for a distance as is clearly illustrated in Fig. 4 of the drawings and the lower end of the chute will be supported on the lower edge of the opening.

Secured to the plate 4 by means of the screws 17 or other suitable fastenings is a housing or deflector 18 which has an opening 19 adapted to register with the opening 6 and an opening 20 in the bottom, a flange 21 extending outwardly from the housing adjacent its lower edge and provided with the oppositely disposed elongated openings 22 as more clearly illustrated in Fig. 2 of the drawings. As shown more particularly in Fig. 4 the lower end of the chute 8 extends through the opening 19 in the housing 18 and the lower end thereof is positioned in the bottom opening 20.

A spout 23 is adapted to be connected to the housing 18 for horizontal swinging movement. Formed on the upper end of the spout is a flange 24 and formed on the lower end is a cup 25, the spout being downwardly inclined from the flanged end to the cup end, the cup being horizontal as more clearly illustrated in Figs. 1 and 5 of the drawings so that if found desirable the bottom thereof may rest upon the table, desk, or other support of the machine. The flange 24 is provided with a plurality of circumferentially spaced threaded opening 26 which are adapted to be brought into registration with the openings 22 which are formed in the flange of the housing 18. Screws 27 pass through the openings 22 and are adapted to be received in the threaded openings 26 to hold the spout in its adjusted positions. It will be seen that by bringing different ones of the openings 26, in alignment with the openings 22, to receive the screws, that the spout may be arranged at various angles with respect to the machine and held in such positions. The upper surface of the spout 23 is concaved transversely so that the coin 28 passing theredown will have only its edges bearing on the spout, as more clearly illustrated in Fig. 4 of the drawings.

Formed in the sides of the spout, adjacent the cup end, are the slots 29 which receive a guard or deflector plate 30, the lower edge of which is spaced slightly above the bottom surface of the spout and cup as more clearly illustrated in Fig. 5 of the drawings. The upper edge of this deflector or guard plate is curved towards the upper or flanged end of the spout as shown at 31, the plate being normally held at an angle as shown.

From the above detail description it will be seen that I have provided a novel form of mechanism whereby coins may be delivered to either end of a coin handling machine and discharged into a spout which is adjustable so as to deliver the coins in a position within easy reach of the operator or a customer. Each end of the machine is provided with an opening through which the coins may be discharged by the inclined chute, the chute being of such a construction that it may be positioned to discharge through either one of the openings. A housing is adapted to be secured to that end of the machine having the opening through which the coins are to be discharged and a detachable plate is provided for closing that opening which is not to be used. The detachable plate and housing are interchangeable or in other words each are adapted to be attached to either end of the machine. The spout is adjustably connected to the housing so that it may be swung horizontally to different positions, a cup being formed on the lower end of this spout for receiving the coins. It can readily be appreciated that in using money handling machines it will be desirable to have the coins discharged at various positions relative thereto. Perhaps with the front of the machine facing the operator it will be desirable to have the coins discharged in position to be received by the operator and if this is the case then the spout and the cup will be in the positions illustrated in Figs. 1 and 2 of the drawings. At other times it may be desirable that the coins be delivered towards a customer on the opposite side of the desk or counter and when this is desired the spout and its cup may be swung around into the position shown by dotted lines in Fig. 1 of the drawings. In order to swing the spout it is only necessary to remove the screws 27 and then when the spout is swung into the desired position the screws are replaced to engage other of the threaded openings 26.

It can be readily appreciated that the spout must have its body portion inclined so that the coins will be discharged into the cup and some means must be provided so that if the coins roll or oscillate down the spout their passage must be broken so they will not jump over the edges of the receiving cup. For this purpose I provide the deflector or guard 30 which is of the shape shown with its upper edge rearwardly curved and its lower edge spaced from the bottom of the spout and cup. If the coins pass down the spout flat they will naturally pass directly under the guard or deflector into the cup. On the other hand if the coins should roll or oscillate down the spout they will be engaged by the deflector or guard plate and directed therebeneath into position within the cup. The rearwardly curved portion 31 prevents the coins from jumping over the upper edge of the deflector or guard plate. By having the bottom of the spout transversely concaved as the coins slide over the surface thereof only the edges of the coins will contact with the spout surface.

I wish to lay particular stress on the interchangeable feature of the spout and opening closure plate so that they may each be used on either end of the machine, that opening not in use being closed by the plate. I also lay particular stress on the idea of adjusting the spout to different positions relative to the machine so that the coins may be discharged from the machine at different angles relative thereto. With the spout constructed as shown it will be seen that the cup portion thereof will normally rest upon the desk, table or other support, and may be swung thereon.

While I have illustrated the preferred embodiments of the invention as they now appear to me it will be understood that changes might be made in the manner of connecting the spout to the machine or holding the same in its various adjusted positions.

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

1. A money handling machine including a housing interchangeable to either end of the machine and adapted to be positioned over an opening formed therein, a flange formed on the housing, a spout having a flange thereon adapted to be positioned adjacent the flange of the housing, said spout receiving coins discharged through the opening in the end of the machine, and means

engageable with the housing flange and spout flange whereby the spout is connected to the housing for horizontal adjustment.

2. A money handling machine including a housing interchangeable to either end of the machine and adapted to be positioned over an opening formed therein, a flange formed on the housing, a spout having a flange thereon adapted to be positioned adjacent the flange of the housing, said spout receiving coins discharged through the opening in the end of the machine, removable means engageable with the housing flange and spout flange whereby the spout is connected to the housing for horizontal adjustment, and means for detachably connecting the housing to the machine.

3. The combination with a coin holding machine having an outlet for liberated coins, of a housing connected to the machine and provided with a passage communicating with the outlet, a delivery spout having at its lower end a relatively shallow cup portion and at its upper end communicating with the passage in the housing, and means for adjustably connecting the upper end of the spout to the housing whereby the spout and cup may be positioned to deliver the coins into the cup at various points relative to the machine.

EDWARD J. BRANDT.