Oct. 23, 1962 G. J. LEIDERMAN 3,059,837

MOUNTING FOR A COIN RECEPTACLE FOR A PARKING METER

Filed June 6, 1960

3 Sheets-Sheet 1

Fig. 1.

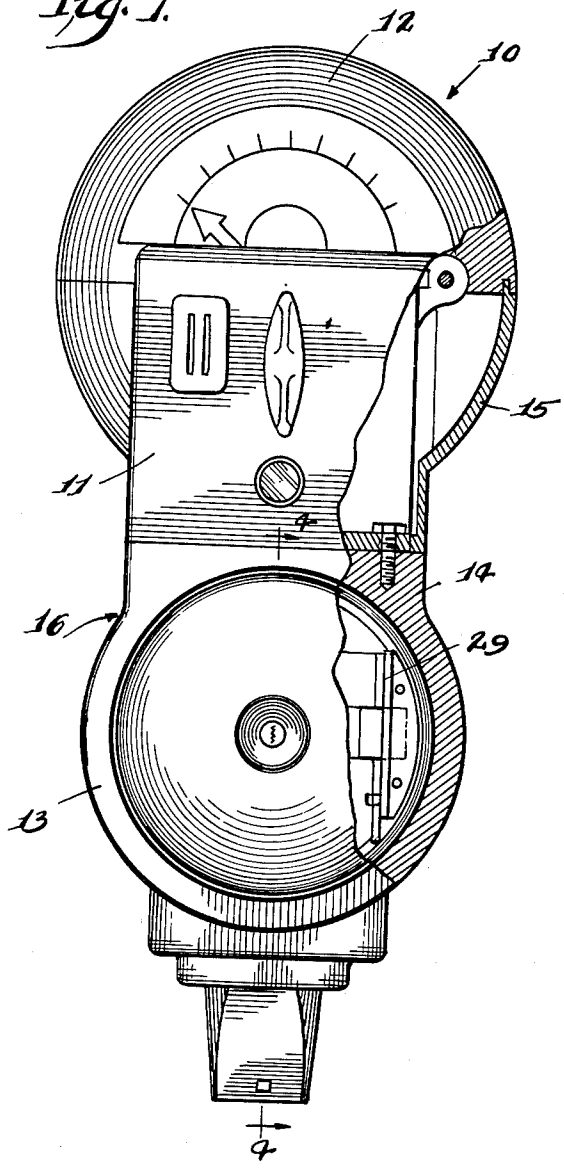



Fig. 2.

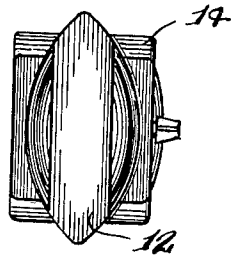
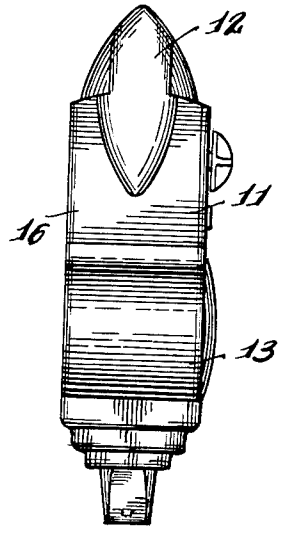



Fig. 3.




INVENTOR.
GEORGE J. LEIDERMAN
BY
Hofgren, Brady, Wegner, Allen & Stellman
Attys

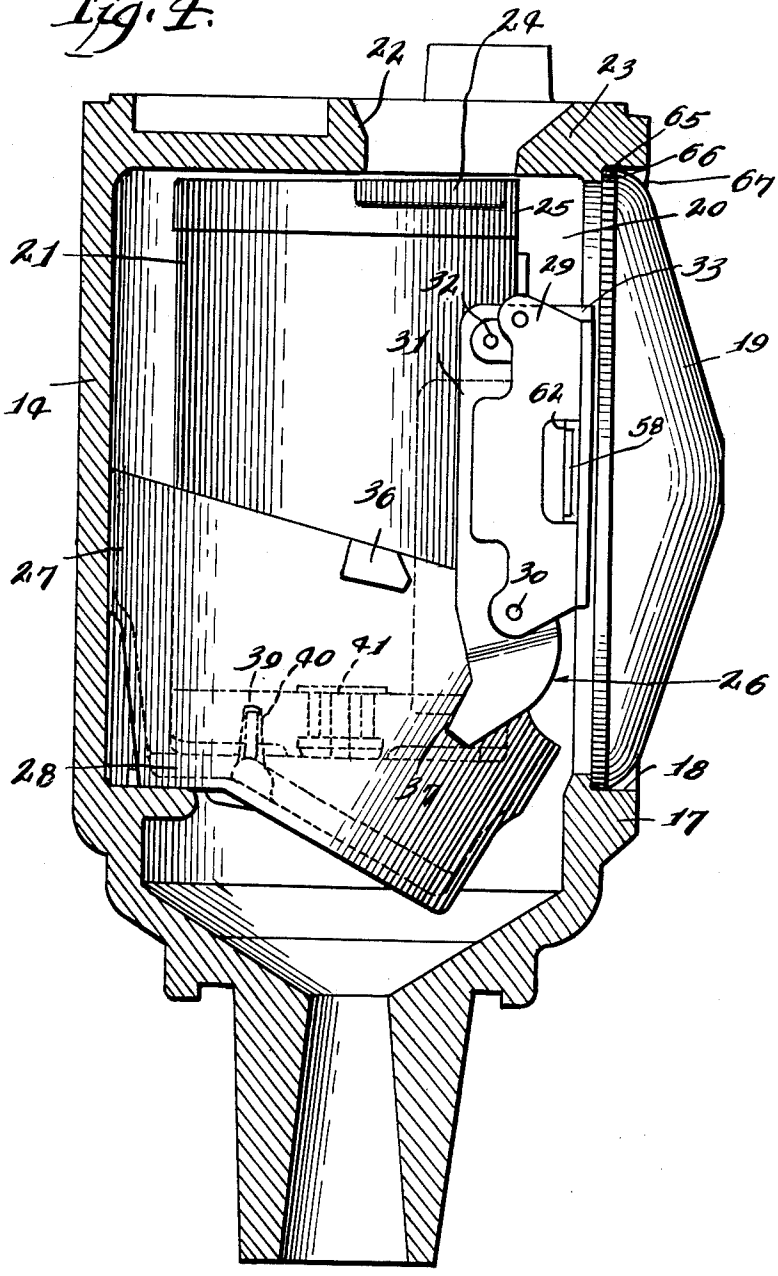
Oct. 23, 1962 G. J. LEIDERMAN 3,059,837

MOUNTING FOR A COIN RECEPTACLE FOR A PARKING METER

Filed June 6, 1960

3 Sheets-Sheet 2

Fig. 1.




INVENTOR.
GEORGE J. LEIDERMAN
BY
Hofgren, Brady, Wegner, Allen & Stellman
Attys

Oct. 23, 1962 G. J. LEIDERMAN 3,059,837

MOUNTING FOR A COIN RECEPTACLE FOR A PARKING METER

Filed June 6, 1960

3 Sheets-Sheet 3

Fig. 5.

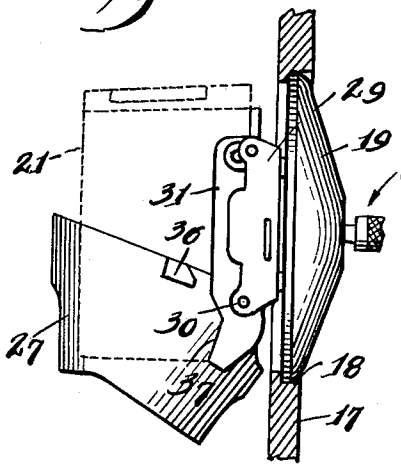



Fig. 6.

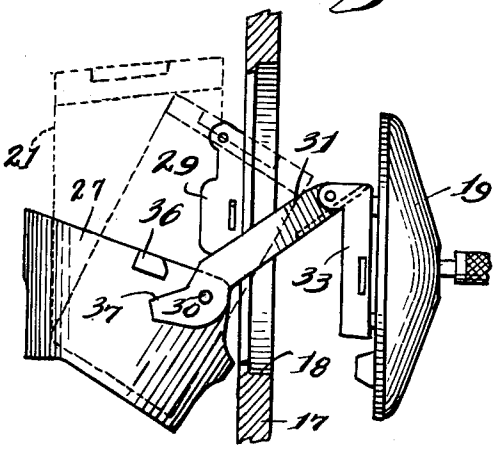
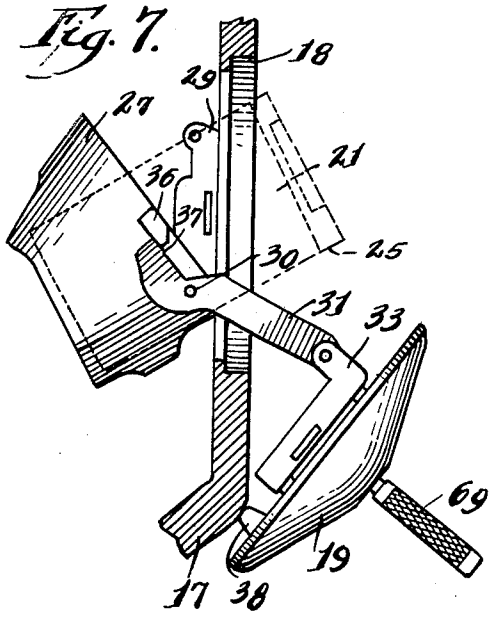



Fig. 7.




INVENTOR.
GEORGE J. LEIDERMAN
BY
Hofgren, Brady, Wegner, Allen & Stellman
Attys.

United States Patent Office 3,059,837 Patented Oct. 23, 1962



3,059,837

# MOUNTING FOR A COIN RECEPTACLE FOR A PARKING METER

George J. Leiderman, Chicago, Ill., assignor to Nautec Corporation, a corporation of New York

Filed June 6, 1960, Ser. No. 34,250
3 Claims. (Cl. 232—16)

This invention relates to coin controlled meters and in particular to coin controlled parking meters.

In the conventional coin controlled parking meter, means are provided for collecting the coins and storing them for removal by authorized personnel. The known coin collecting and storing means have several serious disadvantages such as difficulty of removal of the collected coins by the authorized personnel, and susceptibility to breakage and theft of the collected coins. The present inevntion is concerned with a new and improved coin controlled parking meter effectively eliminating the above discussed disadvantages.

A principal feature of the present invention is, therefore, the provision of a new and improved coin controlled meter.

Another feature of the invention is the provision of such a meter having new and improved means facilitating the withdrawal of the collected coins therefrom.

A further feature of the invention is the provision of such a coin controlled meter having a coin collecting receptacle and means for automatically selectively disposing the receptacle in a coin collecting position and a coin withdrawing position.

Another feature of the invention is the provision of such a coin controlled meter including an enclosure having an access opening, a door selectively closing the opening, a receptacle within the enclosure for collecting coins inserted into the meter, and a support on the enclosure including a first portion pivotally carrying the door and a second portion pivotally carrying the receptacle, the support being arranged to dispose the receptacle in an upright coin collecting position within the enclosure when the door is disposed in a closed position across the opening and to dispose the receptacle in an outwardly accessible position for withdrawal of the collected coins when the door is disposed in an opened position spaced from the opening.

Still another feature of the invention is the provision of such a coin controlled meter wherein the support includes a second portion pivotally carrying a base, the receptacle being removably carried on the base for facilitated withdrawal of the receptacle to permit withdrawal of the coins therefrom.

A still further feature of the invention is the provision of such a coin controlled meter wherein the enclosure is provided with a coin drop and the base is provided with means for locating the receptacle thereon to dispose the receptacle in position to receive coins from the coin drop.

Yet another feature of the invention is the provision of such a coin controlled meter wherein the support is pivotally mounted on the enclosure for facilitated movement of the door and receptacle selectively to the alternative positions thereof.

Other features and advantages of the invention will be apparent from the following description taken in connection with the accompanying drawing wherein:

FIG. 1 is an elevation of a parking meter embodying the invention, with a portion thereof broken away to illustrate the internal construction thereof;

FIG. 2 is a reduced plan view thereof;

FIG. 3 is a side elevation thereof;



FIG. 4 is an enlarged vertical section taken substantially along the line 4—4 of FIG. 1;

FIG. 5 is a fragmentary schematic representation thereof illustrating the closed position of the door and the corresponding coin collecting position of the receptacle;

FIG. 6 is a view similar to that of FIG. 5 but with the door intermediate its closed and opened positions and the receptacle intermediate its coin collecting and coin withdrawing positions;

FIG. 7 is a view generally similar to that of FIG. 5 but with the door in the open position and the receptacle in the coin withdrawing position.

In the exemplary embodiment of the invention as disclosed in the drawing, a coin controlled parking meter generally designated **10** comprises a mechanism portion **11**, an indicating portion **12**, and a coin collecting and storing portion **13**. The present invention is concerned with the coin collecting and storing portion **13**; the mechanism portion **11** and indicating portion **12** may be of any suitable construction, the form thereof shown in the drawing being for illustrative purposes only. As best seen in FIG. 1, the coin collecting and storing portion **13** is housed in an enclosure **14** which may conform to the enclosure **15** of the mechanism and indicating portions **11** and **12** to define a unitary meter housing generally designated **16**.

Referring now to FIG. 4, enclosure **14** includes a front portion **17** defining an access opening **18** selectably closed by a door **9** for controlled access to the space **20** within the enclosure. A receptacle **21** is disposed within space **20** for collecting coins passed downwardly through a coin drop **22** through an upper wall **23** of the enclosure **14**. For this purpose, the receptacle **21** is provided with an opening **24** in its upper portion **25** which is disposed directly below the coin drop **22** when the receptacle is in the coin collecting position shown in FIG. 4. The receptacle is disposed in the coin collecting position by a support generally designated **26** including a first portion **27** defining a base **28** removably carrying the receptacle **21**. Support portion **27** is pivotally mounted on a pair of brackets **29** bolted to the enclosure at the opposite sides of opening **18**, as by pins **30**. Also pivotally mounted on the pins **30** is a second support portion **31** defined by a pair of bars each provided with a pin **32** at its upper end pivotally carrying a bracket **33** secured to the rear of door **19** by suitable means such as bolts **34**. Support portion bars **31** may be interconnected by a plate portion **35** for improved rigidity of the support.

Thus, in effect, door **19** is pivotally mounted on the enclosure **14** by means of bracket **33** and support portion **31** pivoted on the brackets **29** secured to the enclosure. Support portion **27** is pivoted on the enclosure by means of pins **30** on brackets **29**. Pivotal movement of the support portions **31** is transferred to the support portion **27** by means of a pair of co-operating shoulders **36**, on support portion **27**, and **37**, on bars **31**. Thus, as best seen in FIGS. 5 through 7, as the bars **31** are pivoted in a clockwise direction about pivot **30** during a movement of the door **19** away from the access opening **18**, the shoulder **37** on the support portions **31** moves toward the shoulder **36** on the support portion **27** until, as seen in FIG. 7, the shoulder **37** engages the shoulder **36** to pivot the support portion **27** in a clockwise direction about pivot **30** together with the support portions **31**. This clockwise pivoting of the support portion **27** causes the upper portion **25** of the receptacle **21** to swing outwardly through the access opening **18** providing for facilitated removal of the receptacle. To preclude injury to the exterior surface of enclosure portion **17** when the door **19** is in the fully opened position, a bumper **38**, preferably formed of a non-marring material such as neoprene, is secured to the

rear of the door to engage the enclosure portion 17 and maintain the door spaced therefrom at all times. When the door 19 is swung in the reverse direction back to the closed position of FIG. 5, the weight of the support portion 27 automatically returns the support portion 27 to the position of FIG. 5 with the receptacle 21 thereon returned to the coin collecting position.

To assure the proper disposition of the opening 24 of the receptacle 21 relative to the coin drop 22 when the receptacle is returned to the position of FIG. 5, the base 28 of the support portion 27 is provided with a pair of upstanding pins 39 receivable in a corresponding recess 40 in the lower end of receptacle 21. If desired, the receptacle may be provided with a lock 41.

To further resist breakage of the meter as by vandals, it is preferable that the enclosure and door structures be formed of a thick rigid material such as cast metal. Resultingly, the door 19 is relatively heavy and it is desirable to provide some means for facilitated movement thereof between the closed and opened positions as illustrated in FIGS. 5 through 7. For this purpose, the key 68 for opening lock 42 is provided with a handle portion 69 of a size substantially greater than the size of conventional keys. A rod portion 70 extending from the handle portion 69 carries at its distal end the key element 71 for cooperation with the lock. The rod portion 70 accurately fits the opening 49 in door 19 to comprise a rigid connection of the handle to the door when the lock portion 71 is fully received in the lock 42. Thus, key 68 provides a removable handle for facilitated manipulation of the door 19. As indicated above, the handle portion is relatively large; in the illustrated embodiment, the handle portion is arranged to fit the space defined by the user's forefinger, middle finger and apposed thumb. More specifically, the handle may comprise a tubular element at least approximately ½ inch in diameter and at least approximately 3 inches in length.

In use, the coins may be withdrawn from the collecting and storing portion 13 only by authorized personnel having a suitable key 68. The key is inserted through door opening 48 to operate lock 42 and retract the bolts 56 from the bracket slots 62. The handle 69 of the key is then manipulated so as to pivot the door 19 from the closed position of FIG. 5 to the opened position of FIG. 7. In so moving, the door causes a pivotal movement of the support portion 31, which in turn causes a pivotal movement of the support portion 27 to swing the coin collecting receptacle 21 to the inclined withdrawing position of FIG. 7 wherein the upper end 25 of the receptacle is disposed outwardly of access opening 18.

The entire receptacle may be withdrawn by an axial outward movement of the receptacle and an empty replacement receptacle installed, or the collected coins may be removed from the originally installed receptacle and this receptable reinstalled. The guide pins 39 carried on the base 28 of the support portion 27 effect an automatic proper positioning of the installed receptacle so that upon a reverse movement of the door 19 back to the closed position of FIG. 5, the receptacle is automatically disposed with its coin passing opening 24 aligned with the coin drop 22 of the enclosure 14. The key 68 is now withdrawn, leaving the meter in the locked condition.



While I have shown and described certain embodiments of my invention, it is to be understood that it is capable of many modifications. Changes, therefore, in the construction and arrangement may be made without departing from the spirit and scope of the invention as defined in the appended claims.

I claim:

1. In a coin controlled meter: an enclosure having an access opening; a door selectively closing the opening; a receptacle within the enclosure for collecting coins inserted into the meter; and a support on the enclosure pivotally carrying a base, the receptacle being removably carried on the base, said support being movable from a first position disposing the base to carry the receptacle in an upright coin collecting position within the enclosure to a second position disposing the base to carry the receptacle in an outwardly accessible position for withdrawal of the receptacle and means operably connecting the door to said support to move the base to the first position when the door is closed and to the second position when the door is opened.

2. In a coin controlled meter: an enclosure having an access opening; a door selectively closing the opening; a receptacle within the enclosure for collecting coins inserted into the meter; and a support in the enclosure including a first portion pivotally mounted in the enclosure and connected to the door and a second portion pivotally mounted in the enclosure and carrying the receptacle, said support being arranged to dispose the receptacle in a coin collecting position within the enclosure when the door is disposed in a closed position across said opening and means interconnecting the first portion to said second portion and operable to dispose the receptacle in an outwardly readily accessible position for withdrawal of the collected coins when the door is moved to an opened position spaced from said opening.

3. In a coin controlled meter: an enclosure having an upright wall provided with an access opening and an upper portion provided with a coin drop; a door selectively closing the opening; a receptacle within the enclosure for collecting coins from said coin drop; and a support including a first portion pivoted on the enclosure and pivotally carrying the door and a second portion pivoted on the enclosure and pivotally carrying the receptacle, said support portions having co-operating means arranged to dispose the receptacle in an upright coin collecting position within the enclosure below the coin drop when the door is disposed in a closed position across said opening and to dispose the receptacle in an outwardly readily accessible position for withdrawal of the receptacle when the door is disposed in an opened position spaced from said opening, said support portions having a lost-motion association permitting a substantial movement of the door without concomitant movement of the receptacle.

**References Cited** in the file of this patent

UNITED STATES PATENTS

| | | |
|---|---|---|
| 2,570,920 | Clough | Oct. 9, 1951 |
| 2,620,971 | Hale | Dec. 9, 1952 |
| 2,760,721 | Roberts | Aug. 28, 1956 |
| 2,828,908 | Arzig | Apr. 1, 1958 |