April 17, 1951 E. M. SORENSEN 2,548,916

COIN CHANGER

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Fig. 1.

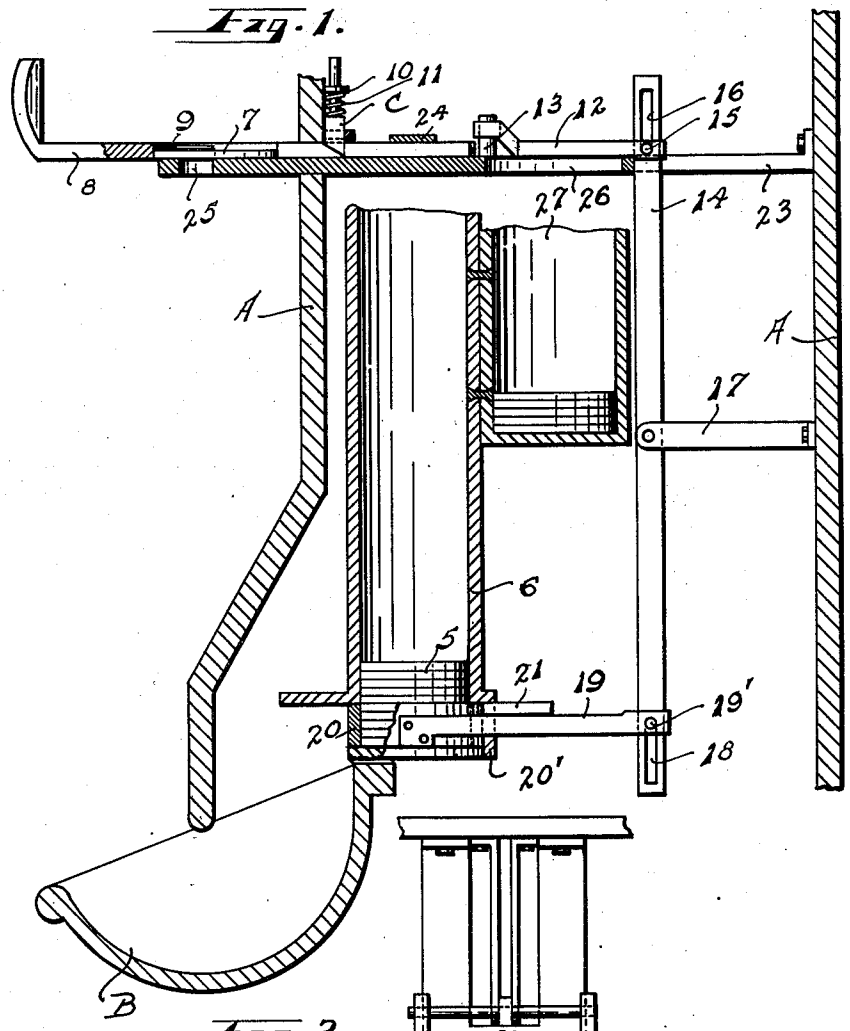
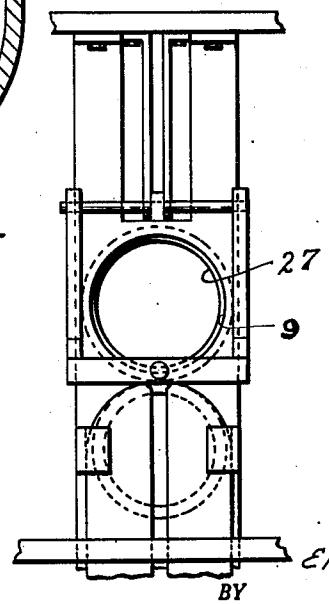


Fig. 2.



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COIN CHANGER

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1 Claim. (Cl. 194—80)

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My invention relates to coin changing devices and more particularly to a simplified coin changing device for use on soft drink vending devices and other machines and has for its object to change dimes, quarters or half dollars into nickels to be used in the machine.

A further object is to provide a coin changing machine which will be simple in construction, economical to manufacture and which will operate efficiently each time, the larger denomination of coin being deposited in the operating lever through the use of the coin the coin handling tube will discharge the correct change into convenient cup while the coin will be dropped into a catch box within the body of the machine.

These and many other objects I accomplish with the device illustrated in the accompanying drawings in which similar numerals and letters of reference indicate like parts throughout the several views and as described in the specification forming part of this application and pointed out in the appended claim.

In the drawings Figure 1 is a vertical section through one of the coin slots, showing the mechanism complete for changing a coin into small change.

Figure 2 is a section plan view of Figure 1.

In the drawings I have shown my device as a casing A, to enclose the coin changer. This casing A is provided with a cup B into which the coins fall from the changer. The changer consists of vertical columns of coins preferably nickels 5 carried in tubes mounted in the framework of the casing A. There may be as many columns of coins as desired each changing the correct amount of nickels for each coin placed therein. As shown in the drawings five nickels are delivered for every twenty-five cent piece. This is accomplished by placing a twenty-five cent piece in the operating slot 7 of the sliding lever 8. This lever 8 has the end turned up to be actuated by the fingers of the operator. The lever has a round hole 9 therein in which the coin is placed. A slot is provided in the lever 8 to permit a catch C mounted on the inside of the casing A to engage behind the coin to prevent it being withdrawn after the change has been delivered. This catch C is held by a bracket 10 and spring 11. The end of the lever 8 engages a sliding bar 12 by engaging a depending lug 13 on the end thereof. The bar 12 is pivotally attached to a vertically mounted fulcrum lever 14 by a pin 15 operating in a slot 16. The fulcrum lever is pivoted to a bracket 17 and the lower end is slotted at 18. Dual levers 19 are attached to a rod 19' which is passed through the slot 18 of the lever 17 and is operated thereby. The ends of the dual levers 19 are attached to each side of a coin selector cup 20. This cup 20 is mounted under the coin tube 6 in slidable relationship thereto and is held in place by the base 20'. The cup is made to receive 5 coins and is moved forward

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and back under the end of the tube when moved forward by the levers it takes 5 coins from the column and drops them in the cup B. The extended lip 21 on the back of the cup 20 prevents any other coins from dropping down the column until the cup has been returned to its initial position when five more coins fall therein.

Having thus described my invention I claim:

A change making machine of the type described comprising a frame, an enclosure around said frame, a substantially vertically disposed receptacle for deposited coins mounted within said enclosure, a substantially vertically disposed change tube secured to said receptacle in lateral alignment therewith and depending therebeneath, a generally horizontally disposed coin slide support having an aperture therein disposed above said deposited coin receptacle, an apertured coin slide reciprocably mounted on the slide support and movable from an outer position wherein the aperture in said slide is exposed, to an inner position within the enclosure wherein the aperture in the slide is in registry with said coin receptacle, said coin slide having a longitudinally disposed slot formed therein extending from the aperture to the inner extremity of said slide, a vertically disposed operating lever pivotally supported within said enclosure for movement about a horizontal axis and slotted adjacent each extremity, a reciprocal change box on the lower extremity of the change tube, a substantially horizontally disposed lever having one extremity connected to said change box, a pin on the opposite extremity of said lever engaging in the slot in the lower end of said operating lever, a bar disposed above said coin slide support and supported thereupon for reciprocal movement, said bar comprising a pair of spaced parallel arms connected by a transverse raised portion permitting the coin slide to reciprocate beneath said raised portion and between said parallel arms, a transversely disposed pin in the free extremities of said parallel arms engaging in the slot in the upper end of said operating lever, and a centrally located vertically disposed lug on the transverse portion of said bar and depending therebeneath in alignment with the slot in the coin slide whereby upon reciprocation of said coin slide a coin therein will engage said vertically disposed lug, reciprocating said bar and actuating said operating lever.

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