Nov. 1, 1932. H. J. GAISMAN 1,885,252

CASH REGISTER

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Fig. 4

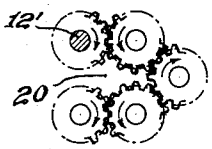


Fig. 1

Fig. 8

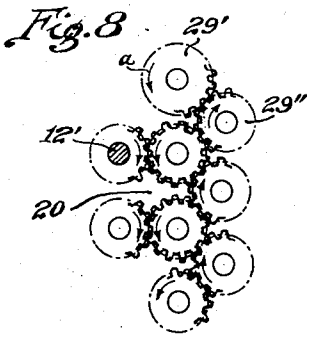
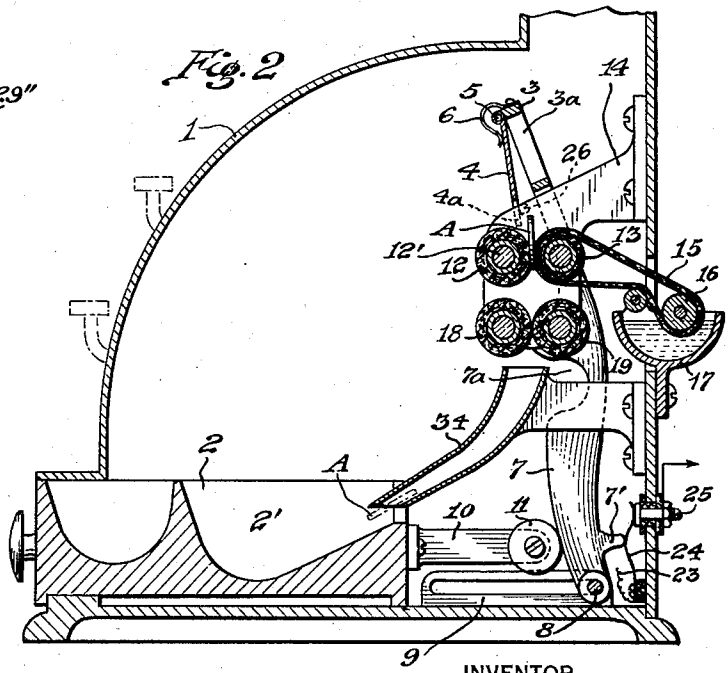


Fig. 2



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Fig. 3

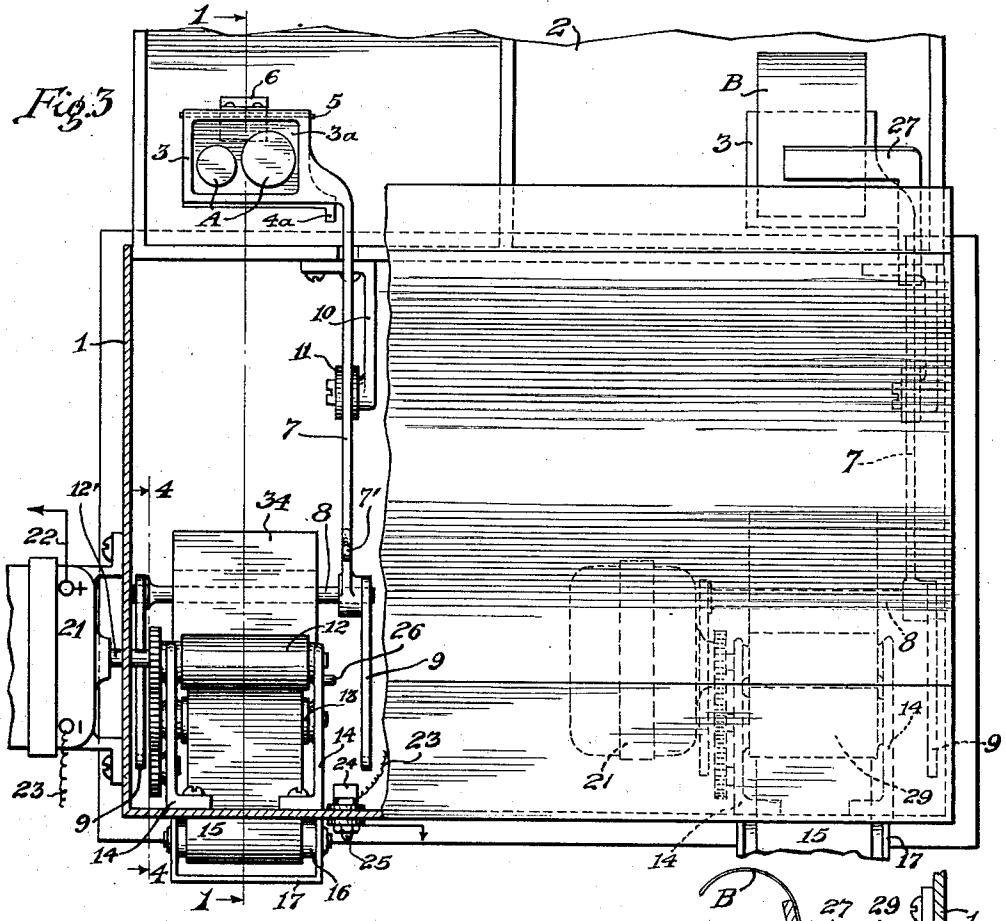


Fig. 6

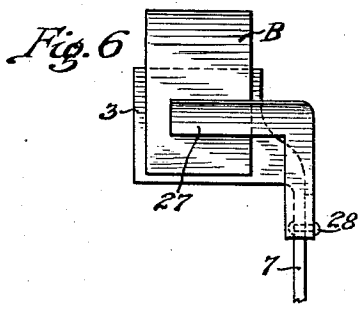


Fig. 5

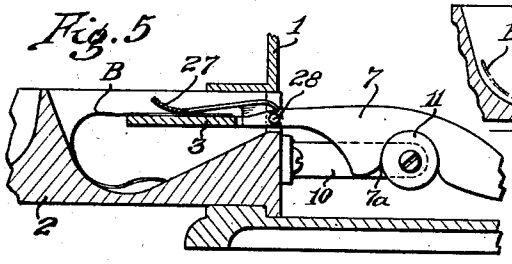
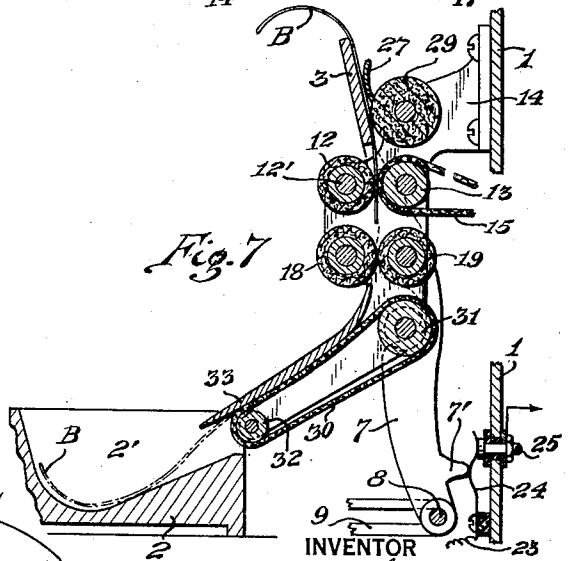


Fig. 7



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CASH REGISTER

Application filed February 2, 1931. Serial No. 512,850.

The object of my invention is to disinfect money that is placed in a cash register so that when the money is passed out from the register it will be in a sanitary condition.

In carrying out my invention I provide means within a cash register to disinfect money, either in the form of coins or bills, means to transfer the money from a receiving position to the disinfecting means, and means to return the disinfected money to a position of access for distribution thereof.

In the example of my invention illustrated in the accompanying drawings I provide a cash register having a money drawer, disinfecting means within the register for the money, receiving means for the money, devices operated by the drawer to move the receiving means with money to a position to deliver the money to the disinfecting means, and means to guide the disinfected money to the drawer for access thereto for distribution of the money.

My invention also comprises novel details of improvement that will be more fully hereinafter set forth and then pointed out in the claims.

Reference is to be had to the accompanying drawings, wherein,

Fig. 1 is a cross section of a cash register embodying my invention, taken substantially on the line 1, 1, in Fig. 3, showing the parts in position to receive money to be disinfected; Fig. 2 is a similar section showing the parts in position for disinfecting money; Fig. 3 is a partly broken plan view of the cash register; Fig. 4 is a detail view substantially on line 4, 4, in Fig. 3; Fig. 5 is a sectional detail illustrating means to receive bills for disinfecting; Fig. 6 is a plan view of part of Fig. 5; Fig. 7 is a sectional detail illustrating delivery of a bill to the disinfecting means, and Fig. 8 is a detail view of gearing for the devices of Fig. 7.

The cash register may be of any desired or well known construction, being shown comprising a casing or housing 1 provided with a money drawer 2 in a well known way. At 3 is a money receiver, adapted to receive coins A, as in Figs. 1, 2 and 3, or bills B, as in Figs. 5, 6 and 7. The coin receiver 3 is shown provided with a movable bottom or wall 4 pivoted to the receiver at 5 and normally retained closed against a coin recess 3*a* by a spring 6 carried by the receiver. The coin receiver is carried by a movable member 7 that is slidably and pivotally supported by a rod or pin 8 which is movably carried in guides 9, shown in the form of slotted members spaced apart, attached to the bottom 1*a* of the register. The drawer 2 is shown provided with a projection 10, preferably having a roller 11, for actuating the member 7. The member 7 is shown having a recess or notch 7*a* to receive the roller 11 when the parts are in the position shown in Fig. 1.

Within the casing disinfecting means are shown to receive money from the receiver 3. Spaced rollers 12 and 13 are journaled in brackets 14 supported within the casing 1, between which rollers the money to be disinfected may pass. The roller 12 may have an absorptive covering, such as of felt. Disinfecting fluid may be supplied in any desired way. I have illustrated an endless belt 15, which may be of felt or other absorptive material, passing around the roller 13 and around a roller 16 journaled on a tank 17, carried by the casing 1 and adapted to receive a disinfectant material or fluid into which the belt 15 dips to transmit the disinfectant to the roller 12 and to the money passing between said roller and belt. Below the roller 12 and the belt 15 are a pair of rollers 18 and 19 adapted to receive between them and feed the coins or bills that pass from the roller 12 and the belt 15. The rollers 18 and 19 may comprise felt or other absorptive material tending to dry the money that passes therebetween. The rollers 12, 13, 18 and 19, and thereby the belt 15, may be driven by a suitable train of gearing, indicated at 20 in Fig. 4, so that the coins or bills will pass between the roller 12 and belt 15 for disinfecting and thence between the rollers 18 and 19 for drying, whence they will pass to a receiving place.

The rollers and belt described may be driven by an electric motor, at 21, coupled to the shaft 12′ of roller 12, Fig. 3. An electric power line 22 may be connected to one

terminal of the motor, and a conductor 23 extending from the other terminal of the motor is connected to a contact 24 carried by and insulated from the casing 1. Said contact is adapted to engage a binding post or contact 25 carried by and insulated from the casing. The member 7 is shown provided with a portion 7' adapted to engage the contact 24 to close the circuit of the motor at 24, 25 when the member 7 is in the position shown in Figs. 2 and 7, and to cause breaking of the circuit when said member is lowered, as in Figs. 1 and 5. In the form shown in Figs. 1, 2 and 3 the bottom 4 of the money receiver 3 is provided with a projection 4a adapted to engage a stop or pin 26 on a bracket 14, when member 7 is raised to coin delivery position, to cause the bottom 4 to move away from the receiver 3 to deliver a coin to the disinfecting devices, as illustrated in Fig. 2.

In the form shown in Figs. 5, 6 and 7 the money receiver 3 is flat to receive a bill B, and a relatively light spring 27 is supported at 28 on member 7, and adapted to retain bill B on the receiver temporarily. When the member 7 is raised, as in Fig. 7, the bill B will be brought into contact with a rotating roller 29 journaled on a bracket 14, which roller will cause said bill to pass between the roller 12 and the belt 15 to be disinfected, and thence the bill will pass between the rollers 18 and 19. The pressure of rollers 18 and 19 against the bill B may serve to smooth and iron out the bill as well as to feed it. A gear 29' connected with roller 29, and operative with an idle gear 29'' of the gear train 20, will cause roller 29 to rotate in the direction of the arrow a in Fig. 8. The bill B may be passed to the till 2' of the drawer 2 by means of a belt 30 passing over rollers 31 and 32 journaled within the casing 1 on brackets 14. A guide 33 on bracket 14 cooperates with the belt 30 in guiding bill B to the till.

When the drawer 2 is pulled out of the cash register casing 1 the projection 10 will recede from member 7, and the latter will swing downwardly until its recess 7a receives the roller 11 and continued pull on the drawer will pull said member outwardly with the money receiver 3 over the drawer, such as over its till, in the position shown in Fig. 1. When a coin A has been placed in the receiver recess 3a and the drawer is pushed inwardly the projection 10 will push the member 7 rearwardly until its rod or pin 8 engages the rear end of the guide 9, whereupon continued pushing on the drawer will cause the member 7 to swing upwardly, the roller 11 bearing against the under surface of said member, to cause the latter to rise, as in Fig. 2, thereupon closing the circuit of the motor at 24 and 25, to cause the disinfecting devices to operate. As the projection 4a of the coin receiver engages the stop 26 the bottom 4 of the receiver will be pushed away and the coin will be deposited between the roller 12 and the belt 15 which will now be rotated by the motor to cause the coin to be disinfected in its passage between said roller and belt and to be passed between the rollers 18 and 19 for delivery to the drawer 2, as through a chute 34 carried by the casing, Fig. 2. If, when the drawer is pulled outwardly, a bill B is placed upon the receiver 3, the member 7 will be raised as before described and the bill will be pressed against the roller 29, to be passed through the disinfecting devices and thence to the drawer, as in Fig. 7.

In accordance with my invention money that is placed in a cash register can be automatically disinfected and rendered sanitary therein, so that when such money is removed from the drawer 2 danger of the spread of germs from such money will be reduced.

Changes may be made in the arrangements set forth, within the scope of the appended claims, without departing from the spirit of my invention.

Having now described my invention what I claim is:—

1. A cash register having disinfecting means to receive money and pass it through said means, and means to present money to the disinfecting means and means to deliver the disinfected money from the disinfecting means.

2. A cash register having means to disinfect money, means to present money to the disinfecting means, and means to present the disinfected money to a position for delivery.

3. A cash register provided with a money drawer, means to disinfect money and a money receiver operative by the drawer to present money to the disinfecting means.

4. A cash register as set forth in claim 3 provided with means to guide the disinfected money to the drawer.

5. A cash register provided with a money drawer, means to disinfect money, a movable member provided with a money receiver, and means to operate the member to present the money in the receiver to the disinfecting means.

6. A cash register as set forth in claim 5 provided with means to guide the disinfected money to the drawer.

7. A cash register provided with a money drawer, means to disinfect money, a movable member provided with a money receiver, and means cooperative between the drawer and the member to operate the latter to present money in the receiver to the disinfecting means.

8. A cash register as set forth in claim 7 provided with means to guide the disinfected money from the disinfecting means to the drawer.

9. A cash register provided with means to disinfect money and dry the disinfected

money, means to present the money to the disinfecting means, and means to guide the disinfected money to a position for delivery.

10. A cash register provided with a drawer, a member pivotally and slidably supported and provided with a money receiver adapted to extend over the drawer, money disinfecting means, and means cooperative between the drawer and said member to operate the latter to present the receiver in position to deliver money to the disinfecting means.

11. A cash register as set forth in claim 10 in which the means cooperative between the drawer and the member includes projecting means on the drawer, the member having a recess to receive said means to slide and raise the member when the drawer is pushed into the register.

12. A cash register having a drawer, guiding means, a member slidably and pivotally connected with said means, means cooperative between the drawer and the member to operate the latter by the former, said member having a money receiver, and disinfecting means located in position to receive money from said receiver when the drawer is pushed inwardly to operate said member.

13. A cash register as set forth in claim 12 provided with means to guide disinfected money to the drawer.

14. A cash register having a drawer, a movable member having a money receiver adapted to extend over the drawer in the outward position of the latter, roller means to receive money from the receiver, and means to supply the roller means with a disinfectant.

15. A cash register as set forth in claim 14 provided with an electric motor, means to operate the roller means by said motor, and a circuit for the motor having a contact, said member having means to control the contact to control the operation of the motor.

16. A cash register having means to disinfect money, a money receiver provided with a movable bottom, means normally retaining the bottom closed against the receiver, a pivotal member carrying said receiver, means to operate the member to present the receiver in position to deliver money from the receiver to the disinfecting means, and means in position to be engaged by the said bottom to release money from the receiver when the member moves the receiver adjacent to the disinfecting means.

17. A cash register as set forth in claim 16 provided with means to receive the disinfected money to dry and propel the same, and means actuated by the motor to operate said last named means.

18. A cash register having means to disinfect money, a money receiver having means to retain a bill thereon, a member carrying said receiver, means to operate the member to present the bill to the disinfecting means, a roller to engage said bill to advance it to the disinfecting means, and means to actuate said disinfecting means and said roller.

19. A cash register as set forth in claim 18 provided with roller means to receive a disinfected bill, and means to actuate said roller means.

20. A cash register as set forth in claim 18 provided with a belt and a guide to receive disinfected money, and means to actuate said belt to move the disinfected money to a position for delivery.

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