

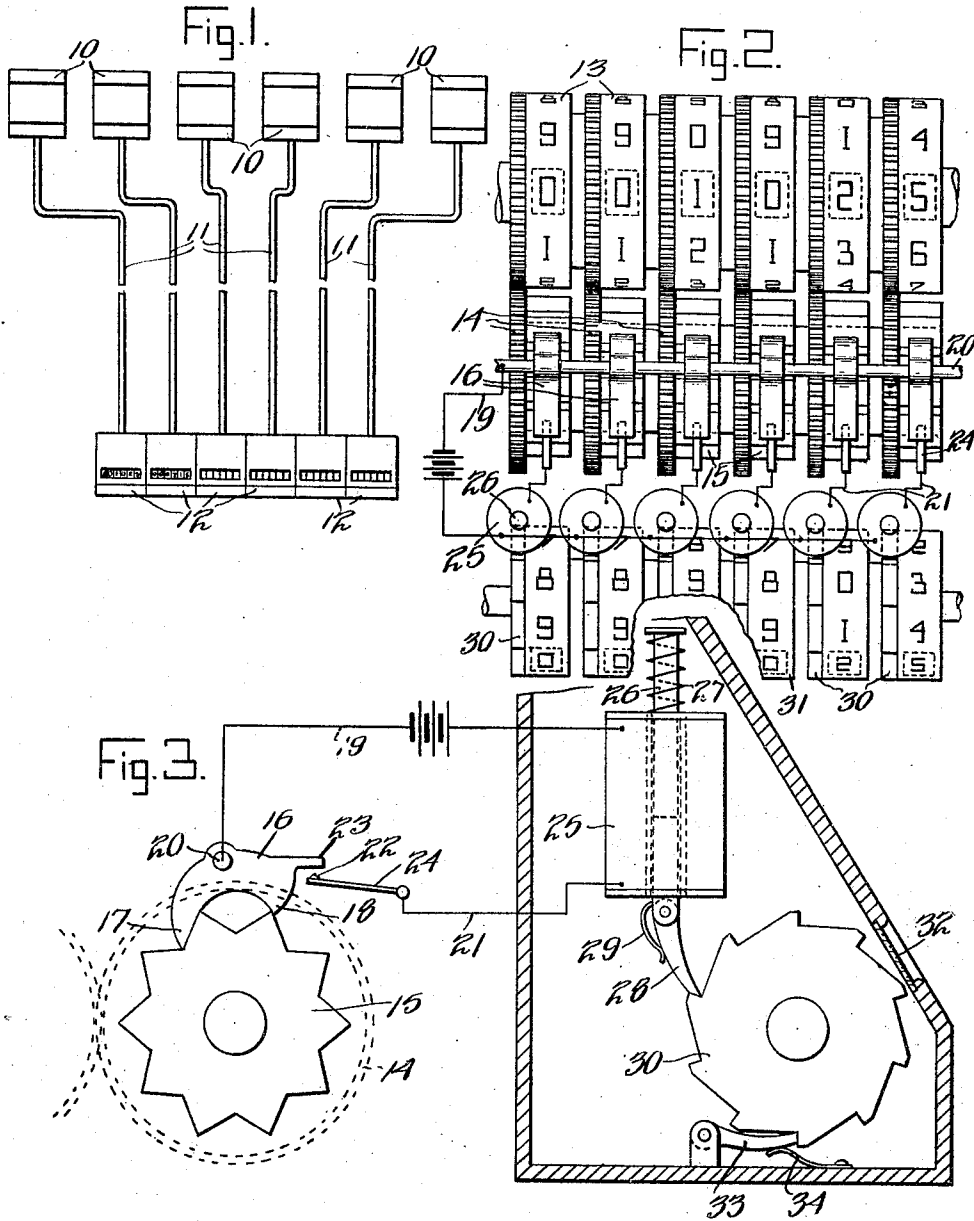
Nov. 30, 1926.

1,609,155

C. V. CATELL

CASH REREGISTER SYSTEM

Filed Feb. 25, 1924



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CASH REREGISTER SYSTEM.

Application filed February 25, 1924. Serial No. 695,113.

My said invention relates to an automatic cash re-register and it is an object of the same to provide means in the main office of a store or other place where cash registers are used for indicating automatically the number of sales and the amount thereof.

Referring to the accompanying drawings, which are made a part hereof and on which similar reference characters indicate similar parts,

Figure 1 is a diagrammatic view of a system embodying my invention,

Figure 2, a fragmentary detail of a single unit on a larger scale, and

Figure 3, a side elevation of parts shown in Figure 2.

In the drawings reference characters 10 indicate individual members of a series of cash registers located in various parts of a store either on the same floor or on different floors, these cash registers being connected by electrical connections 11 to re-registers 12 in the main office arranged in a set or series in any convenient way so as to make their information quickly available.

Each of the registers 10 as usual contains a series of totalizer wheels 13 for rendering the total after each operation of the machine. According to my invention I provide a corresponding series of wheels 14 geared to the respective wheels 13, each of the wheels 14 being provided at one side with a cam wheel or cam portion 15 having its surface provided with a plurality of notches and forming teeth or as a series of similar equally spaced high and low parts as illustrated in Figure 3. A follower or escapement 16 has a pair of spaced extremities or points 17 and 18 joined by a curved surface, said teeth contacting or cooperating with the curves or angular sides of the cam and following closely along opposite sides of adjoining teeth. A conductor 19 is connected to the pivot 20 of the follower and another conductor 21 is connected to a contact 22 adapted to engage the tail 23 of the follower. The contact 22 is supported on a pivoted arm 24 which may be spring pressed toward the tail of the follower if desired.

The conductors 19 and 21 are connected through a battery to a solenoid 25 having an armature 26 normally held in raised position by a spring 27. The armature is provided at its lower end with a pivoted pawl 28 impelled by a spring 29 in a direction to engage and operate a ratchet 30.

The ratchet 30 (Fig. 3) is one of a series shown in Figure 2 each of which has integral therewith a digit wheel 31 the whole series constituting a totalizer similar to that on the corresponding cash register 10. The disks 31 are visible through a window 32 in usual fashion as at 12 in Fig. 1 and the ratchets 30 are held against reverse movement by detent pawls 33 held in engaging position by springs 34.

In the operation of the device each of the re-registers 12 in the main office will be actuated at each operation of the individual registers 10, the movement of a totalizer wheel 13 causing the rotation of the pinion 14 meshing with the teeth of the pinion secured to or rigid with the wheel 13 and so turning the cam 15 to oscillate the follower 16 thereby closing the circuit at 22, 23 each time that a high place on the cam passes. When this takes place the solenoid 25 is energized so that the corresponding armature is pulled downward to turn the ratchet 30 thereby the digit wheel 31 fixed thereto will be turned to offer the same indication as on the corresponding wheel of the individual cash register.

It will be obvious to those skilled in the art that numerous additions may be made to what is shown in the drawings and described in the specification as well as modifications of the devices therein set forth all without departing from the spirit of the invention. For example it will be entirely possible to provide devices for showing in the main office the total number of sales or the sales by individual sales persons as is customary in large stores thereby making available in the main office, without delay or trouble, the relative activity of various sales persons and otherwise affording information of value. Instead of totalizer wheels I may use indicating means of other forms and generally the form and arrangement of parts may be varied according to need or preference. For the reasons above set forth I do not limit myself to the precise embodiment of the invention shown and described but only as indicated in the appended claim.

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

The combination of primary registers having digit wheels, re-registering means including digit wheels, independent electric

circuits between pairs of wheels in the respective sets, means for opening and closing each circuit including a cam-wheel driven by the first-named digit wheel said cam-wheel having a series of teeth, an escapement contacting simultaneously with sides of two teeth, a terminal on the escapement, and means operated by the electric circuit to drive the re-registering wheel of the pair in synchronism with the other, substantially as set forth. 10

In witness whereof, I have hereunto set my hand and seal at Bangor, Maine, this 23rd day of February, A. D. nineteen hundred and twenty-four.

CARL V. CATELL. [L. S.]