

(No Model.)

F. S. GRANT.
POCKET CASH REGISTER.

No. 568,565.

Patented Sept. 29, 1896.

Fig. 1.

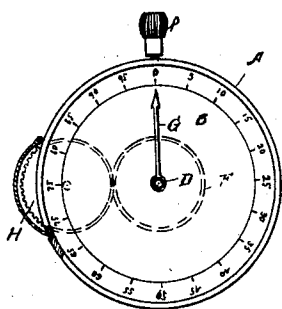


Fig. 2.

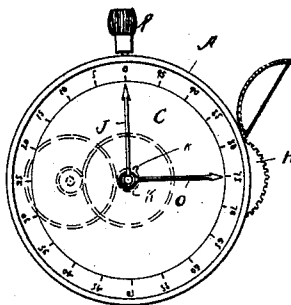


Fig. 3.

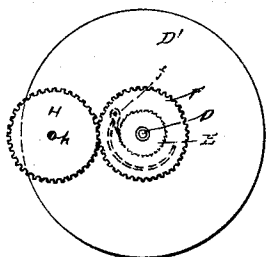


Fig. 4.

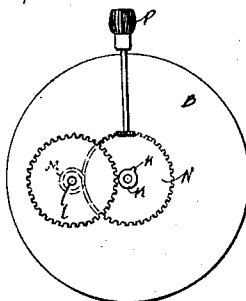


Fig. 5.

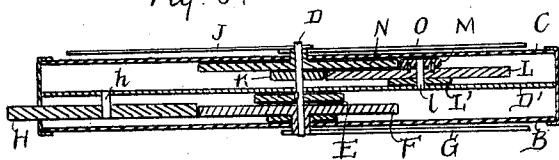


Fig. 6.



WITNESSES

G. Anderson
R. C. Masi.

INVENTOR

Frank S. Grant.
E. W. Anderson
his Attorney

UNITED STATES PATENT OFFICE.

FRANK S. GRANT, OF WATERBURY, CONNECTICUT, ASSIGNOR TO GRANT & WARNER, OF SAME PLACE.

POCKET CASH-REGISTER.

SPECIFICATION forming part of Letters Patent No. 568,565, dated September 29, 1896.

Application filed February 28, 1896. Serial No. 581,157. (No model.)

To all whom it may concern:

Be it known that I, FRANK S. GRANT, a citizen of the United States, and a resident of Waterbury, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Pocket Cash-Registers; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a representation of a front view of a cash register. Fig. 2 is a rear view of same. Fig. 3 is a face view of center plate and mechanism upon one side thereof. Fig. 4 is a face view of plate *c* and mechanism situated upon the other side of center plate. Fig. 5 is a central section through register. Fig. 6 is a perspective view of the wheel and attached sprocket.

The object of this invention is to provide a small, compact, and convenient device capable of being carried in the pocket for the purpose of a cash-register, and which shall be capable of registering and indicating not only the amount of each individual transaction within a certain limit, but also of registering and indicating the sum total of all transactions up to a certain amount.

With this object in view the invention consists in the novel construction and combination of parts, all as hereinafter described, and pointed out in the appended claims.

Referring to the accompanying drawings, the letter A indicates the case of the register, which in general appearance is similar to that of an open-faced watch, except that there is a dial upon each side. The dial-plate B upon one side or face is for the purpose of indicating the amounts of individual transactions, while the dial-plate C upon the opposite side is for the purpose of indicating total registration in dollars and cents. Both dial-plates are usually marked from "0" to "100."

D designates a central post or shaft which is journaled in the dial-plate C and in an intermediate plate D'. Near one end portion

of said post or shaft and fast thereto is a disk E, and sleeved loosely on the shaft is a gear-wheel F, having a spring-pressed frictional pawl or click *f*, which is arranged to engage with the said disk when the gear-wheel is turned in a forward or clockwise direction, but which passes loosely over the same when the gear-wheel is turned backward. The sleeve of said gear-wheel projects through the dial-plate B and carries on its projecting end a hand or pointer G.

H is a gear-wheel which is loosely journaled on a stud *h* of the intermediate plate D' and whose teeth mesh with the teeth of the gear-wheel F. A small portion of the periphery of this wheel H projects through the edge portion of the case in position to be rotated by the fingers. The opposite end portion of the shaft D projects through the dial-plate C and carries a hand or pointer J, which indicates cents. On said shaft between the plates D' and C is rigidly secured a small disk K, provided with a single tooth or projection *k*, which is arranged upon each revolution to engage the teeth of and move forward one step a gear-wheel L, which is loosely journaled on a stud *l*. This gear-wheel has secured rigidly thereto a pinion M, which meshes with another gear-wheel N, loosely sleeved upon the shaft D. The sleeve of this gear-wheel N projects through the dial-plate C and carries a dollar-pointer O. The several gear-wheels and pinions are of such relative sizes as to cause the pointer O to make one rotation to one hundred revolutions of the pointers G and J.

L' is a washer for the wheel L, which prevents its being moved by a jar or rough handling.

In making a registration the pointer G is first turned back to zero by means of the wheel H. It is then turned forward to the number on the dial corresponding to the amount to be registered; causing the pointer J to move a corresponding distance. If the amount registered is one dollar or over, or if it is sufficient, when added to such fraction of a dollar as may have been registered by a previous operation, to amount to one dollar or over, the gears L, M, and N are each rotated one step, and the pointer O is moved

one step. Up to one dollar the amount of each individual transaction will be correctly indicated by the pointer G.

A thumb-piece or key P may be provided for turning the pointer O back to zero when it is desired to commence a new registration. In the construction shown said key has a small pinion whose teeth mesh with the teeth of the gear-wheel N, whereby said wheel may be rotated for this purpose. The pointers J and G may be set back to zero by the manipulation of the wheel H.

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

1. A pocket cash-register, comprising a case having circular dials upon opposite faces thereof, a central rotary post or shaft, a gear-wheel loosely sleeved on one end portion of said shaft and having a ratchet connection therewith, a pointer carried by said sleeve and arranged to traverse one of said dials, a loosely-journaled gear-wheel which has a portion of its periphery exposed, a pointer secured to the opposite end portion of the said post or shaft, a gear-wheel loosely sleeved around this end portion of said shaft, a pointer carried by said sleeve, and gear connections between this sleeved wheel and the post or

shaft whereby said wheel is moved one step for each revolution of the post or shaft, substantially as specified.

2. A cash-register comprising a case having circular dials upon opposite sides thereof, a central post or shaft loosely journaled in said case and carrying a pointer at each end portion thereof, the pointer at one end being rigidly secured thereto and that at the other end being connected thereto through a ratchet device, whereby said pointer moves with the shaft in one direction only, a loose gear-wheel attached to said sleeve and carrying the pawl of said ratchet device a third pointer carried by a second sleeve loosely fitted on said shaft, gear connections between said sleeve and the shaft whereby the sleeve is rotated at a much slower rate of speed than the shaft, and a loosely-journaled gear-wheel a portion of whose periphery projects beyond the body of the said case, said gear-wheel being in engagement with the gear-wheel first above recited, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

FRANK S. GRANT.

Witnesses:

JAMES M. WARNER,
FRANK S. BACON.