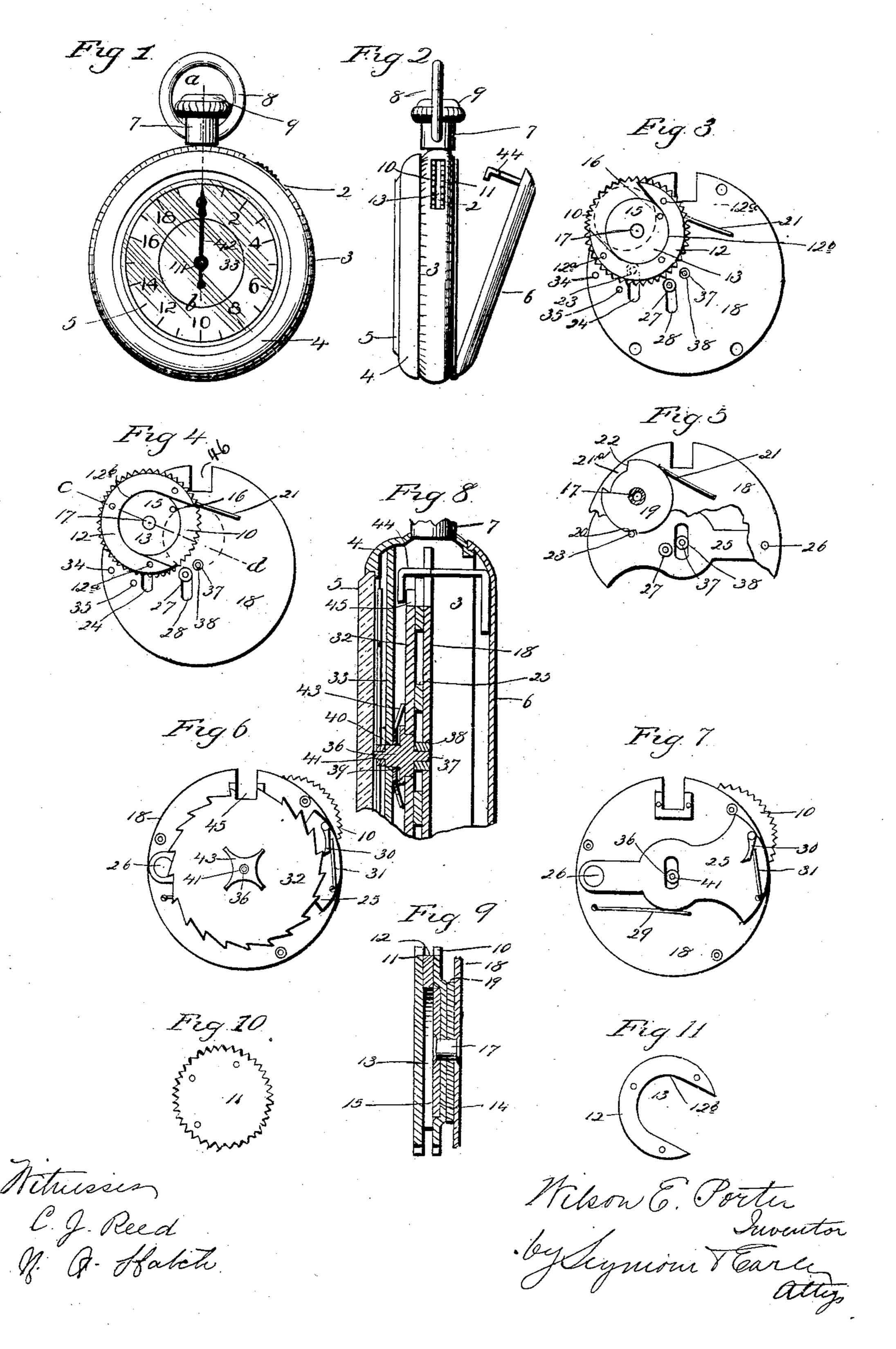
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POCKET COIN BANK.

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Patented Sept. 29, 1908.



UNITED STATES PATENT OFFICE.

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POCKET COIN-BANK.

No. 899,678.

Specification of Letters Patent.

Patented Sept. 29, 1908.

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To all whom it may concern:

Be it known that I, Wilson E. Porter, a 5 State of Connecticut, have invented a new and useful Improvement in Pocket Coin-Banks; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference 10 marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and

represent, in— Figure 1 a view in front elevation of a 15 watch-like coin-bank constructed in accordance with my invention. Fig. 2 a view thereof in side elevation with the back-cap partly open. Fig. 3 a detached view in rear elevation of the coin-mechanism with the 20 rear disk of the coin-receiver, which is shown in its coin-receiving position, removed. Fig. 4 a corresponding view with the coin-receiver shown in its coin-discharging position. Fig. 5 a broken view in front elevation of the coin-25 mechanism showing the safety-cam and the plates of an ordinary watch - movement. 80 operating-lever, the coin-receiver being removed to show the said cam and the movement-plate being broken away to show the said lever. Fig. 6 a view of the coin-mech-30 anism in front elevation with the dial removed. Fig. 7 a view of the coin-mechanism with the dial and ratchet or count wheel removed. Fig. 8 a broken view on an enlarged scale of the bank in vertical section on 35 the line a-b of Fig. 1. Fig. 9 a broken view

My invention relates to an improvement in watch-like coin-banks designed to be carried in the pocket of the user, the object being to produce a simple and reliable bank constructed to indicate at any time the exact number 45 of coins in it and to automatically unlock itself after the introduction into it or "banking" of a predetermined number of coins.

on the same scale on the line c-d of Fig. 4.

Fig. 10 a detached view of the rear disk of the

coin-receiver. Fig. 11 a corresponding view

of the crescent-shaped coin-ejector.

With these ends in view my invention consists in a watch-like coin-bank having certain 50 details of construction and combinations of parts as will be hereinafter described and pointed out in the claims.

In carrying out my invention as herein shown, I form a coin-slot 2 in the center ring | chamber 13 as shown by Fig. 3, in which the

bezel 4 carrying a crystal 5, a hinged backcap 6, a pendant 7, a ring 8 and a crown 9 citizen of the United States, residing at New | which latter is a dummy. The said coin slot Haven, in the county of New Haven and 2 which should be a trifle longer than the diameter of the coin to be "banked," permits 60 the projection outward through it of the front and rear disks 10 and 11 of a rotary coinreceiver, the peripheries of these disks being toothed, as shown, or roughened in some equivalent way to provide for the rotation of 65 the coin-receiver by the finger which engages so much of it as projects through the slot 2. These two disks are separated from each other by a crescent shaped coin-ejector 12 forming a coin-chamber 13 and secured by 70 rivets 12a, or otherwise, to the front disk 10 the central portion of which is struck forward to form a large shallow concentric recess 14 for the reception of a fixed disk 15 carrying near its edge a coin-ejecting pin 16 and itself 75 staked upon the rear end of a hub 17 mounted in the movement-plate 18 of the coinmechanism, the said movement-plate corresponding to either one of the two movement-The hub 17 passes through the center of the front disk 10 and forms the journal upon which the coin-receiver is rotated, the same carrying the coin-ejector as has been already explained.

A safety-cam 19 located between the disk 10 and the plate 18 and secured to the said disk 10 so as to rotate therewith, is formed with a stop-notch 20 coacting with a spring finger 21 for preventing the reverse move- 90 ment of the coin-receiver and hence the abstraction from the bank of any coins that have been "banked" therein. The cam 19 is also furnished with a deep, wide clearance notch 21ª having one of its end walls beveled 95 as at 22 and receiving a pin 23 projecting rearward through a slot 24 in the plate 18 from the operating-lever 25 by which it is carried and which extends across the entire front face of the plate 18 and is hung at one 100 end upon a pivot 26. The said lever 25 carries a rearwardly projecting coin-operated pin 27 extending through a slot 28 in the plate 18 and just clearing the peripheries of the disks 10 and 11. The function of this 105 pin will be best understood by describing at this point the operation of "banking" a coin. A coin having been entered into the coin-35 3 of a watch-like bank-case comprising also a looin is represented by broken lines, the coin- 110

receiver is rotated from left to right, whereby the coin is moved in an orbital path, so to speak, with respect to the fixed coin-ejecting pin 16, under which it is carried and which forms a point of purchase for the coin-ejector 12 to act against in forcing the coin inward and downward and so ejecting it into the free space of the interior of the bank case. It should be further explained that the edge 12^b 10 of the coin-ejector engages with and acts upon the edge of the coin which is prevented from moving in any direction, as described, except inward and downward against the pin, whereby the lever 25 is swung positively 15 downward against its spring 29. During this downward movement of the lever 25 its pawl 30, which is controlled by a spring 31, moves a large ratchet or count wheel 32 one step, or, in other words, a distance repre-20 sented by the length of one of its ratchetteeth the number of which will correspond to the graduations on the dial 33.

As the watch shown is designed for "banking" twenty dimes, the wheel 32 is conse-25 quently formed with twenty teeth, and the dial 33 divided into twenty equal spaces. When the coin 25 has been forced over the pin 27 it drops into the bottom of the case whereby the pin 27 is freed and hence the 30 lever 25 which will now be lifted by the spring 29 so as to engage the pawl 30 with the next succeeding tooth of the ratchet-wheel 32 provided at this time the clearance notch 21 in the safety cam 19 is in registration with 35 the safety pin 23 carried by the lever 25. Unless the notch 21 is so registered with the pin 23 the lever cannot be sufficiently raised by the spring 29 to reëngage the pawl 30 with another tooth of the ratchet wheel 32. In 40 this way the safety cam 19 performs the safety function before referred to. As

in the plate 18 to prevent the coin from dropping downward into the bottom of the bank-45 case in case the same should be held in a vertical position at the time of rotating the coinreceiver for "banking" a coin. The wheel 32 is mounted upon a short arbor 36 having at its rear end a trunnion 37 running in a 50 bushing 38 in the plate 18. The forward end

shown two guard pins 34 and 35 are mounted

of the arbor 36 is formed with a shoulder 39 running in a bearing hole 40 in the center of the dial 33. The extreme forward end of the arbor 36 consists of a stem 41 for the attach-55 ment of a pointer 42. A spider-like spring 43 mounted on the rear portion of the shoulder 39 and interposed between the wheel 32

and the dial 33 provides the friction required for controlling the step-by-step rotation of 60 the wheel 32.

In order to lock the back-cap 6 of the case in its closed position during the accumulation of the required number of coins in the bank, I provide it with a forwardly project-65 ing locking-hook 44 which passes forward

through a clearance notch 45 located in the edge of the wheel 32 in such position that it registers with the hook 44 only when the pointer 42 stands at zero on the dial 33 as shown in Fig. 1. At this time the back-cap 6 70 may be closed as the notch 45 permits the forward movement through it of the hook 44. Now when the first coin is introduced into the bank, the wheel 32 is rotated a distance represented by the length of one of its teeth, 75 whereby the notch 45 is carried out of registration with the hook 44 which will thereafter be engaged with the front face of the ratchet wheel 32 at a point just within the bottom line of its teeth. From this time 80 forward the ratchet-wheel 32 itself prevents the back-cap 6 from being opened. When, however, the wheel 32 has completed one entire revolution, the notch 45 is again brought into registration with the hook 44 85 permitting the opening of the back-cap, but at this time the required number of coins has been accumulated in the bank. In order to permit the hook 44 to reach forward through the notch 45 in the ratchet-wheel 32, 90 the plate 18 is formed in its edge with a deep clearance notch 46.

1 claim:—

1. In a pocket coin-bank, the combination with a watch-like case having a coin-slot, of a 95 rotary coin-receiver mounted in the said case adjacent to the said coin-slot, a lever operated by the coin as the same is forced out of the coin-receiver by the rotation thereof, a ratchet-wheel operated step-by-step by the 100 said lever, and a dial operated by the said wheel.

2. In a pocket coin bank, the combination with a watch-like case having a coin-slot, of a rotary coin-receiver mounted within the case 105 adjacent to the said slot through which it projects beyond the periphery of the said case, a lever operated by the coin when the same is forced out of the coin-receiver by the rotation thereof, a ratchet-wheel operated 110 step-by-step by the said lever, and a dial operated by the said ratchet-wheel.

3. In a pocket coin bank, the combination with a watch-like case having a coin-slot, of a coin-receiver mounted in the said case adja- 115 cent to the said slot and comprising two disks, and a crescent-shaped coin-ejector located between the same, and means operated by the coins inserted into the said coin-receiver for registering the rotary movement thereof. 120

4. In a pocket coin-bank, the combination with a watch-like case having a coin-slot, of a rotary coin-receiver mounted in the said case adjacent to the said slot, a safety cam rotating with the said coin-receiver, and means 125 operated by the coins inserted into and rotated by the receiver for registering the rotations thereof.

5. In a pocket coin-bank, the combination with a watch-like case having a coin-slot, of a 130

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rotary coin-receiver mounted in the said case adjacent to the said slot, a coin-ejector rotating with the said coin-receiver, a fixed coin-ejecting pin extending into the said coin-ejector, a lever operated by the coin as the same is ejected nto the said case, and registering mechanism operated by the said lever.

6. In a pocket coin-bank, the combination with a watch-like case having a coin-slot, of a rotary coin-receiver comprising two disks one of which is formed with a concentric recess, a fixed disk located in the said recess, a coin-ejecting pin mounted in the fixed disk, a hub carrying the fixed disk and forming a bearing on which the recessed disk rotates, a movement-plate in which the hub is mounted, and registering means operated by the coin as the same is ejected from the coin-receiver into the said case.

7. In a pocket coin-bank, the combination with a watch-like case having a coin-slot, of a rotary coin-receiver, a cam rotating therewith and having a clearance notch, a lever operated by the coins during the rotation of 25 the said coin-receiver, a safety pin carried by the said lever and co-acting with the notch in the said cam, a ratchet-wheel actuated in step-by-step movement by the said lever, a dial operated by the said wheel, a pawl car-33 ried by the said lever and coacting with the teeth of the ratchet-wheel, and a spring lifting the lever for engaging the teeth of the pawl with the ratchet wheel when the clearance-notch of the cam is registered with the 55 safety-pin of the lever.

8. In a pocket coin-bank, the combination with a watch-like case having a coin-slot, of a

rotary coin-receiver containing a coin-chamber, a fixed coin-ejecting pin extending into the said chamber for co-action with the coins 40 as the receiver is rotated, an operating lever, a pin carried thereby in position to be engaged by the coins as the same are forced under the said pin, and registering mechanism operated by the said lever.

9. In a pocket coin-bank, the combination with a watch-like case having its center-ring formed with a coin-slot and its back-cap provided with a forwardly projecting lockinghook, of a movement-plate fixed within the 50 said case and formed in its edge with a notch, a dial located within the said case at a point in front of the said plate, a count-wheel located between and journaled in the said plate and dial, actuated in step-by-step ro- 55 tation by the coins as they are successively "banked" by insertion into the said slot, and formed with a notch, the said hook passing forward through the said notches in the wheel and plate and co-acting with the front 60 face of the wheel for holding the cap in its closed position until a predetermined number of coins have been introduced into the case when the notch in the wheel is registered with the notch in the plate, permitting the 65 case to be opened.

In testimony whereof, I have signed this specification in the presence of two subscribing witnesses.

WILSON E. PORTER.

Witnesses:

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CLARA L. WEED, GEORGE D. SEYMOUR.