

(No Model.)

C. W. KELLY & G. H. VORE.
FAUCET REGISTER.

No. 577,756.

Patented Feb. 23, 1897.

Fig. 4.

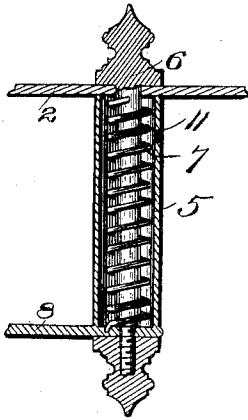


Fig. 1.

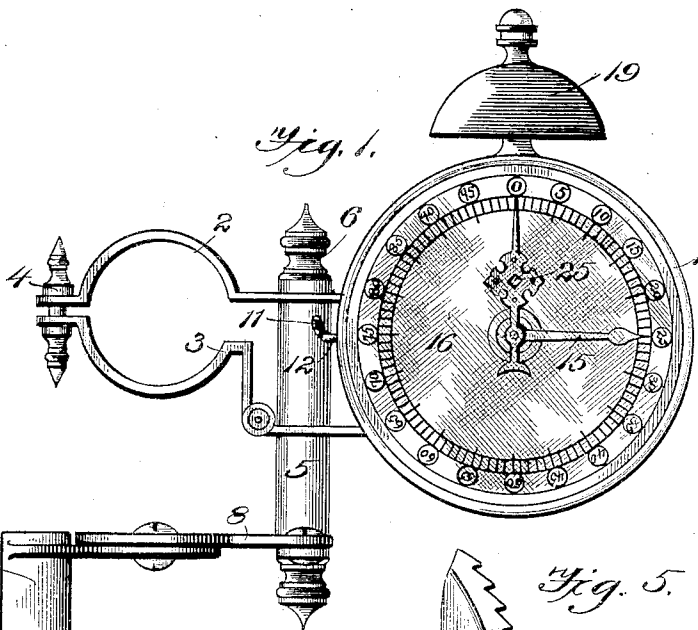


Fig. 2.

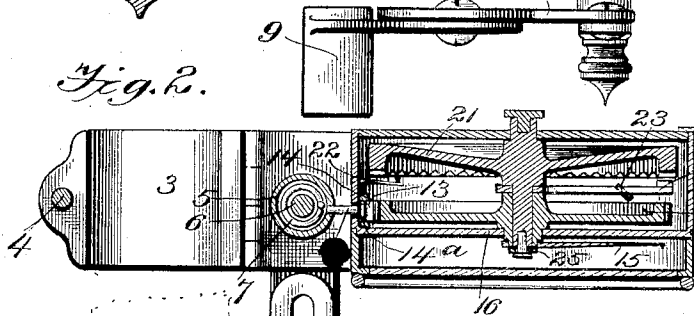


Fig. 5.

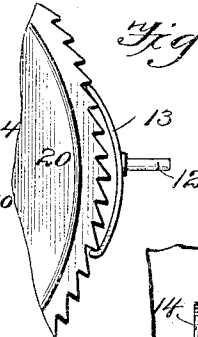


Fig. 3.

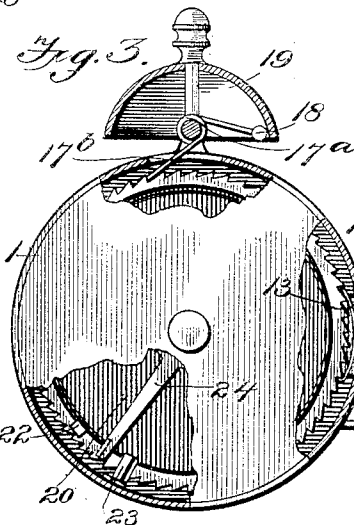


Fig. 6.

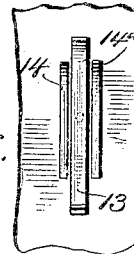


Fig. 7.



Witnesses
Simon S. Messer.
F. M. Wright.

Inventors
Charles W. Kelly,
Gabriel H. Vore,
By T. J. Geisler
Attorney

UNITED STATES PATENT OFFICE.

CHARLES W. KELLY AND GABRIEL H. VORE, OF OREGON CITY, OREGON,
ASSIGNORS OF ONE-FOURTH TO GEORGE C. FIELDS, OF SAME PLACE.

FAUCET-REGISTER.

SPECIFICATION forming part of Letters Patent No. 577,756, dated February 23, 1897.

Application filed August 1, 1896. Serial No. 601,387. (No model.)

To all whom it may concern:

Be it known that we, CHARLES W. KELLY and GABRIEL H. VORE, citizens of the United States, and residents of Oregon City, Clackamas county, and State of Oregon, have invented a certain new and useful Faucet-Register, of which the following is a specification, reference being had to the accompanying drawings as a part hereof.

The object of our invention is to obtain a machine to be attached to the faucets of soda-fountains, beer-kegs, &c., for registering the number of times the faucet is opened for drawing off some of the liquid contained in the keg or fountain.

Our invention is especially designed to keep a check on the number of glasses of beverages sold over the counter by employees. Besides this, our device will also enable the employer to keep a record of the number of glasses drawn, to inform him if the keg or fountain is properly filled.

The construction and operation of our device are as illustrated in the accompanying drawings, in which—

Figure 1 is a front elevation. Fig. 2 is a plan section taken through a center horizontal line of Fig. 1. Fig. 3 is an elevation from the opposite side of Fig. 1, with the outer door removed and parts broken away to more fully illustrate the coöperation of some of the parts; and Figs. 4, 5, 6, and 7 are details which will be more fully described when referred to later.

The numbers designate the parts referred to in the description.

The registering mechanism of our device is inclosed in a circular case 1, giving it the appearance of a small alarm-clock. The exterior of the casing is provided with two jaws 2 and 3, the lower 3 of which is hinged, by means of which jaws our device is attached to the faucet, the jaws being fastened together by means of a bolt and nut 4. The vertical cylinder 5 is fastened between the jaws 2 3 by means of a nut and bolt 6, and the latter provided with a spiral spring 7, the upper end of which is fastened to the upper end of the bolt 6, and the lower end being fastened to the lower part of the cylinder 5.

To the cylinder 5 is rigidly attached a lever 8, these two parts being adapted to operate to-

gether, pivoting on the bolt 6. The lever 8 is provided with a jaw 9 at its extremity faced with a pad of rubber 10 or like suitable material. The lever 8 is adjustable as to length, as will be observed from Figs. 1 and 2, and it is constructed in two pieces united by a central pivot to enable the jaw to be more conveniently placed against the side of the glass and the latter more readily under the faucet.

The cylinder 5 is provided with a slanting slot 11, (see also Fig. 8,) in which operates the pin 12, attached to a segment-spring 13, which lies against the periphery of the casing 1 between two guide-blocks 14 and 14^a, (see Fig. 6,) so that such spring may play up and down when moved by its pin 12, being lifted in the slot 11 by the turning of the cylinder 5.

20 is a ratchet-wheel with one hundred teeth extending around its circumference, against which press the extremities of the two arms of the segment-spring 13. A clearer view is given of the latter in Fig. 5. With each lift of the pin 12 and the segment-spring 13, attached thereto, one or the other of the arms of the spring 13 will engage the teeth of the wheel 20 and move the latter one tooth forward, the various parts of our device referred to being adapted to so operate.

A hand 15 is attached to the axis of the wheel 20, and each forward movement of such wheel registers one point or figure on the dial 16. At the same time the teeth of the wheel 20 lift the arm 17^b, attached to the coil-spring 17^a, at the free end of which is a hammer 18, tapping the bell 19. The arm 17^b acts as a detent for the wheel 20 to prevent the same turning back again.

21 is another ratchet-wheel with teeth on its interior face.

22 is a shoe (see Figs. 2 and 3) attached to a short spring and bearing against the teeth of the wheel 21, holding the same until moved forward by the mechanism yet to be described.

23 is a slanting rigid wedge, and 24 a spring-arm rigidly attached to the axis of and revolving with wheel 20. Upon the wheel 20 (once in each of its complete revolutions) bringing the arm 24 in contact with the wedge 23 the arm 24 is lifted into engagement with the teeth of the wheel 21 and moves that one point forward, the arm 24 being thereupon released from the wedge 23 again. The axis

of the wheel 21 is likewise provided with a hand 25, which indicates the one hundreds.

Our device, as is apparent, will register to ten thousand.

5 The face of our register is covered with a glass set in a frame hinged to the case, and the back is covered with a door, also hinged to the case.

Now what we claim, and desire to secure by
10 Letters Patent, is—

1. As a faucet-registering device, a slotted case 1, having jaws 2 and 3, and means for locking the same together whereby to attach such case to a faucet, the bolt 6, the vertical
15 cylinder 5, pivotally suspended from the jaw 2, by the bolt 6, the slotted cylinder extending through a circular aperture in the jaw 3; a coil-spring 7, on the bolt 6, the upper end of which spring is fast to such bolt; and the
20 lower end fast to the cylinder; the extension-arm 8, rigidly attached to the cylinder 5, and having a pivoting-jaw 9, at its extremity; guide-blocks 14 and 14^a, extending on and parallel to the verge of such slot; the segment-
25 spring 13, with pin 12, extending through the slot in the case, and into the slot 11 in the cylinder 5; the ratchet-wheel 20 having a suitable number of teeth extending around its circumference; means for arresting the
30 wheel 20 when not moved forward; the ratchet-wheel 21 and a suitable communicating mechanism for the wheels 20 and 21, so that each complete revolution of the wheel 20 will move the wheel 21 one point forward; a suitable
35 alarm-bell, and mechanism for striking the same adapted to cooperate with the wheel 20 so that each movement thereof will cause a tap on the bell by its hammer; and a hand on the axis of each of the wheels 20 and 21,
40 to note their rotations, the parts being combined and cooperating as described.

2. As a faucet-registering device, a slotted case 1, having jaws 2 and 3, and means for locking the same together whereby to attach
45 such case to a faucet; the slotted vertical cylinder 5, pivotally suspended from the jaw 2 by the bolt 6; the cylinder extending through a circular aperture in the jaw 3; a coil-spring 7 on the bolt 6, the upper end of which spring
50 is fast to such bolt, and the lower end fast to the cylinder; the extension-arm 8, rigidly at-

tached to the cylinder 5, and having a pivoting-jaw 9, at its extremity; guide-blocks 14 and 14^a extending on and parallel to the verge of such slot; the segment-spring 13 with pin 55 12, extending through the slot in the case, and into the slot 11 in the cylinder 5; the ratchet-wheel 20 having a suitable number of teeth extending around its circumference; the spring-detent 26; the spring-arm 24 rigidly 60 attached to the axis of the wheel 20 and revolving therewith; the wheel 21, with a suitable number of teeth on its interior face; the shoe 22 for arresting the wheel 21 when not moved forward; the slanting wedge 23 65 for throwing the toes on the arm 24 in engagement with wheel 21, once in each complete revolution of the wheel 20; a suitable alarm-bell, and mechanism for striking the same; adapted to cooperate with the wheel 20, so 70 that each movement thereof will cause a tap on the bell by its hammer; and a hand on the axis of each of the wheels 20 and 21, to note their rotations, the parts being combined and cooperating as described. 75

3. As a faucet-registering device, the combination of a horizontally-vibratable arm, carrying a jaw adapted to be engaged by the vessel filled from said faucet, a vertical bearing for said arm, means for securing said 80 bearing to the faucet so that said arm shall be below the mouth thereof, registering mechanism likewise supported on said faucet by said means and comprising a ratchet-wheel 85 and operating-pawl therefor, and operative connection between said arm and said pawl, whereby lateral movement of the arm operates said pawl, a spring resisting said operative movement, an alarm-bell, and a spring-arm carrying a hammer for striking the bell, 90 said arm engaging the teeth of the ratchet-wheel to act as a detent when the latter has been moved forward, substantially as described.

In testimony whereof we, the undersigned, 95 do hereunto set our hands on the 24th day of June, 1896.

CHARLES W. KELLY.
GABRIEL H. VORE.

Witnesses:

T. J. GEISLER,
E. D. TIMMS.