

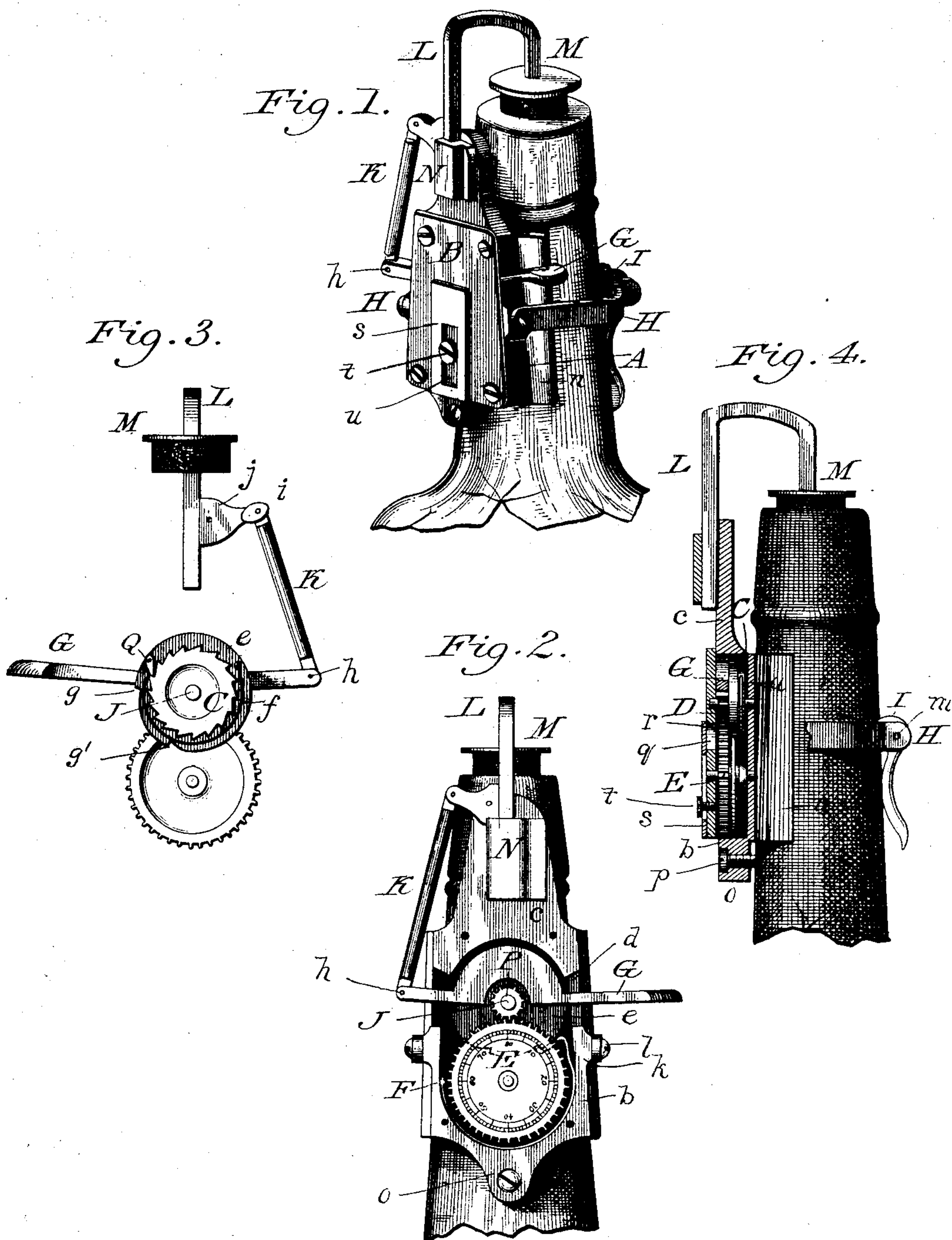
(No Model.)

G. WEITZEL.

DRINK REGISTER FOR BOTTLES.

No. 327,364.

Patented Sept. 29, 1885.



Witnesses:

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# UNITED STATES PATENT OFFICE.

GEORGE WEITZEL, OF TOLEDO, OHIO.

## DRINK-REGISTER FOR BOTTLES.

SPECIFICATION forming part of Letters Patent No. 327,364, dated September 29, 1885.

Application filed January 9, 1885. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE WEITZEL, of Toledo, in the county of Lucas and State of Ohio, have invented a new and useful Register  
5 for Registering the Number of Drinks Contained in Any Given Quantity of Wine or Liquor; and I do hereby declare that the following is a full and clear description thereof, reference being had to the accompanying drawings,  
10 and to the letters of reference marked thereon.

My invention relates to devices for registering the number of times the stopper may be withdrawn from a bottle in pouring out a portion  
15 of the contents of said bottle; and the said invention consists in a device adapted to be secured to the neck of a bottle, so that a cork or stopper of said device will close the mouth of said bottle, the said cork or stopper being so  
20 connected with the registering mechanism that each time it is withdrawn the register will be operated to register such withdrawal.

In the accompanying drawings, forming part of this specification, Figure 1 is a perspective view of the upper portion of a bottle  
25 having my improved device applied thereto. Fig. 2 is a front elevation of the device as applied, the front of the register-case being removed. Fig. 3 is a detail view illustrating  
30 the arrangement by which the movement of the stopper actuates the registering mechanism, and Fig. 4 is a vertical sectional elevation through the device.

The main portion or body of the device is  
35 constituted by a case, A, the rear of which consists of the vertical portion *a*, integrally carrying at its front the flange or projecting portion *b*, and at the top of its front face the extension *c*, the said portion *b* and projection  
40 *c* being curved, respectively, at their inner faces or edges, to present, in connection with the intermediate flanges, *d*, the recess for containing the registering mechanism. It will be  
45 noted by reference to Figs. 1 and 2 that the flanges *d* do not project from the portion *a* to the extent that the flange *b* and portion *c* do. Hence a depression is presented at each side of the case between the flange *b* and portion *c*.

The portion *a* has formed therein, one above  
50 the other, two perforations, which register with depressions in a face-plate, B, forming the front of the case or body, and bearing on the

flange *b* and portion *c*, to which it is secured by screws. The attachment of the plate B converts the depressions into slots.

The upper opening and depression of the portion *a* and plate B contain bearings for the ends of an axis, J, which has mounted thereon a short distance from each other a pinion, P, and ratchet-wheel C. The portion of the  
60 axis between said pinion J and wheel C bears loosely in an opening formed centrally in the vertical disk portion *e* of a horizontal lever, G, the ends of which extend through the slots at each side of the case.

A pawl, Q, is pivoted on the rear face of the disk portion *e*, and is adapted to engage the teeth of the ratchet-wheel C, so as to permit the same to rotate in one direction only, the said pawl being held in engagement with said  
70 teeth by means of a curved spring, *f*, which is secured at one end to the rear of the disk portion *e* at one side of the ratchet-wheel, and, passing around the lower side of the latter, extends up and bears with its free end on the  
75 pawl.

In the lower perforation and depression of the portion *a* and plate B bear the journals of a gear-wheel, E, the vertical portion of which is in front of the disk portion *e*, so that  
80 its gear-teeth mesh with those of the pinion P, and the front face of the wheel is graduated, as shown in Fig. 1, to any desired number.

The disk portion *e* is notched peripherally, so as to form two shoulders, *g g'*, one of which  
85 is adapted to be engaged by the free end of a curved spring, F, which passes around the wheel E, and is secured to the inner face of the flange portion *b* at the other side of the recess. Now, by causing the spring to engage  
90 the first recess, *g*, as shown in dotted lines, Fig. 2, the said spring will normally cause the lever G to occupy the position illustrated in the several figures of the drawings; but by effecting an engagement with the notch *g'* the  
95 lever will be tilted, so that while one projecting portion rests in the upper end of one slot the other portion rests in the lower end of the other slot.

The outer end of the lever G is enlarged,  
100 while the other end is slotted to receive the tongue of a rod, K, which tongue is pivotally connected to said lever by means of a pivot, *h*. The other end of the rod K is also tongued



to be pivotally secured to the slotted extension *i* of a block, *j*, which plays vertically in an open groove formed by a bracket, *N*, in the projecting portion *c* of the case. The said block *j* carries integrally a vertical bar, *L*, which is guided in a suitable recess therefor in the bracket *N*, and the said bar is bent over and downward to carry a stopper, *M*.

At each side of the case below the slots is a boss, *k*, provided with a threaded opening adapted to receive the threaded end of a pin, *l*, forming a pivot for the sections of a bail, *G*, the other ends of said sections being bent parallel, so as to leave a small intermediate space, which is spanned by a pin, *m*, upon which is pivoted at its head a cam-lever, *I*, the cam-face of which is curved, to enable it to conform to the ordinary horizontal curvature of a bottle-neck.

The rear base of the portion *a* is provided at each side with a vertical rib, *n*, which slightly inclines outward, so as to more readily secure a bearing against the bottle-neck. The flange *b* has a centrally-depending ear, *o*, for the passage of a screw, *p*, the end of which is designed to bear against the neck of the bottle and support the device at its lower front portion, to aid the securing action of the cam at the upper rear side.

In practice the device is placed against the neck of the bottle, as shown in Figs. 1 and 4, the bail *H* having been previously caused to embrace said neck, in order that the clamp *I* may, in connection with the screw *p*, be operated to hold the device rigidly upon the neck, which adjustment will result in bringing the stopper down into the mouth of the bottle. Should, however, the neck be shorter than represented, the disk *e* can be rotated to cause the notch *g'* to be engaged by the spring *F*, which will tilt the lever, so that by its rod-connection with the stopper the latter will normally occupy a nearer position to the rest of the device than before.

When it is desired to pour a drink from the bottle, the enlarged end of the lever *G* is pressed upon, which will throw the other end upward, and thereby elevate the stopper out of and above the mouth. As the end of the lever *G* is depressed its pawl *Q* moves the ratchet-wheel *C* one tooth, and thereby rotates the wheel *E* one tooth to register one additional degree. The return of the lever *G* to its first position results in the pawl *Q* riding over the succeeding tooth of the ratchet without effecting any movement of the same or of the wheel *E*.

An opening, *q*, is formed in the face-plate *B*, immediately in front of the upper portion of the wheel *E*, so as to expose a portion of the graduated surface of the latter, an index-finger, *r*, depending down from the plate *A* into the opening *q*, to designate the graduations.

A rectangular plate, *s*, is secured on the front of the plate *B*, by having the head of a

threaded screw, *t*, clamp the plate *s* at each side of a vertical slot, *u*, through which the screw *t* passes. By loosening the screw *t* the plate *s* may be adjusted vertically, to cause its upper portion to cover or uncover the opening *q*.

It will be obvious that the improved device is of simple, light, and neat construction, and of easy and positive operation.

I claim—

1. The combination, in a drink-registering device, of a case containing registering mechanism and adapted to be secured to a bottle by a clamping device, substantially such as a yoke and a cam-lever, a stopper, and lever connected thereto and adapted when depressed to actuate the registering mechanism, substantially as set forth.

2. The combination, in a drink-registering device, of a case containing registering mechanism, means, substantially such as a yoke and cam-lever, for securing said case to a bottle, a stopper, a bar connected to said stopper, a bracket located on the upper portion of the case and serving as a guide for said bar, and a lever connected to said bar and adapted when depressed to actuate the registering mechanism, as set forth.

3. The combination, in a drink-registering device, of a case containing registering mechanism, means, substantially such as a yoke and cam-lever, for securing said case to a bottle, a stopper, a lever connected thereto and provided with a disk portion having two notches, and a spring secured to the case and adapted to engage either of said notches, to vary the normal position of the lever, and consequently that of the stopper, as set forth.

4. The combination, in a drink-registering device, of a case containing registering mechanism, a stopper, and a lever connected thereto and adapted when depressed to actuate the registering mechanism, and a yoke pivotally secured to the said case and carrying a pivoted cam-lever, as set forth.

5. The combination, in a drink-registering device, of a case composed of a rear portion, *a*, and a front flange, *b*, extension *c*, and a face-plate, *B*, forming a chamber slotted at each side, registering mechanism, and a pivoted lever located in said chamber, the end of the latter extending through the slots, a stopper connected to one end of said lever, and a device for securing said device to a bottle, as set forth.

6. The combination, in a drink-registering device, of a case containing a graduated gear-wheel, a lever pivoted in said case above said wheel, and provided centrally with a disk portion journaled loosely upon an axis, a ratchet-wheel rigidly secured on said axis, and a pawl on said disk for only engaging said ratchet-wheel when the disk is moved in one direction, a pinion rigidly mounted upon said axis and engaging said gear-wheel, a stopper connected to said lever, and a device for se-

curing the case to a bottle, substantially as set forth.

7. The combination, in a drink-registering device, of a case composed of a rear portion,  
5 *a*, flange *b*, extension *c*, and front *B*, registering mechanism located in said case, and the lever for actuating said registering mechanism, a stopper connected to said lever, a yoke

pivoted to said case and having a cam-lever, and an ear perforated for the passage of a 10 threaded screw, substantially as set forth.

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Witnesses:

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