

(No Model.)

H. C. BARKER.

DRINK REGISTERING ATTACHMENT FOR BOTTLES.

No. 421,091.

Patented Feb. 11, 1890.

Fig- 1 -

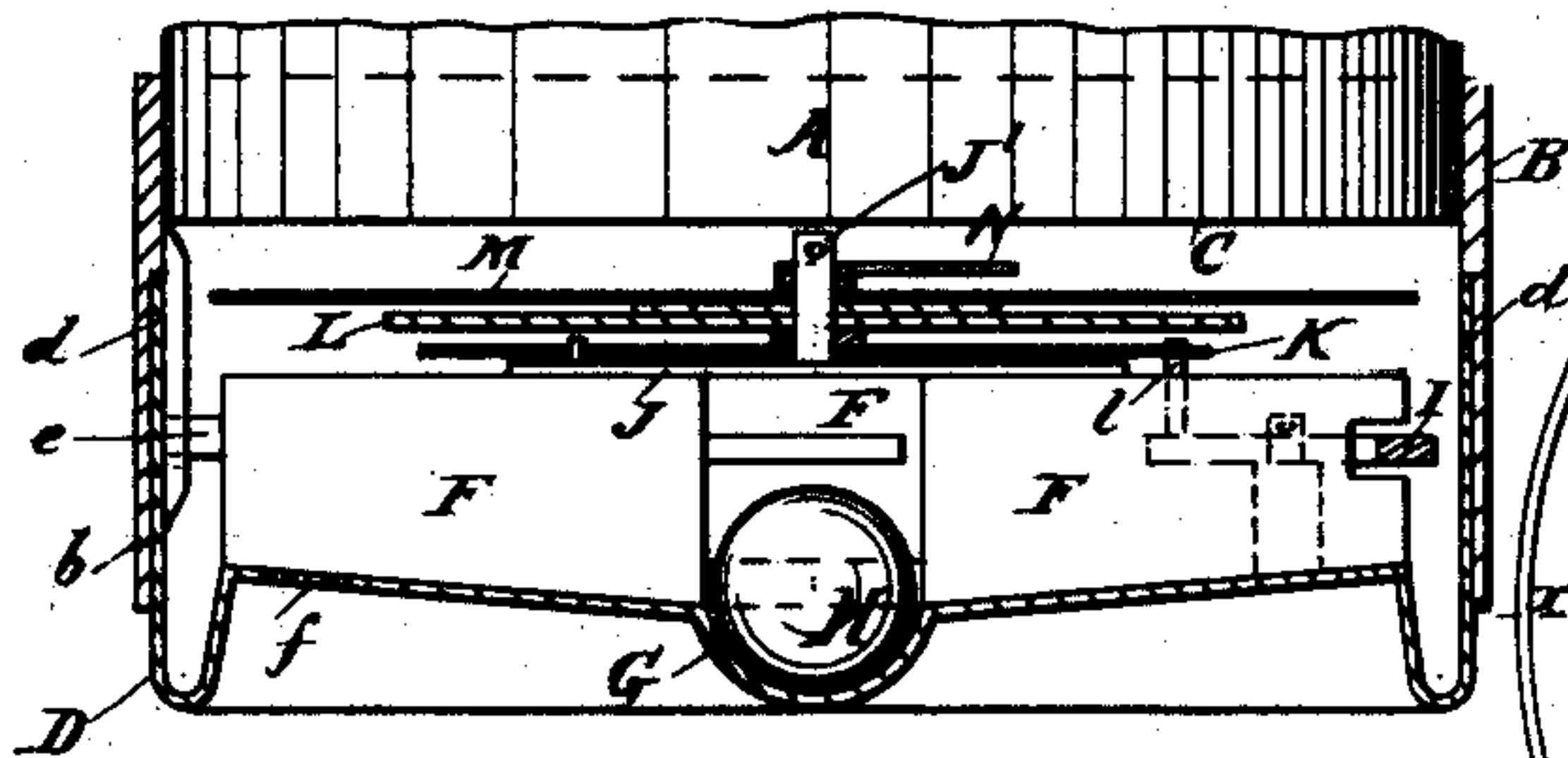


Fig- 2 -

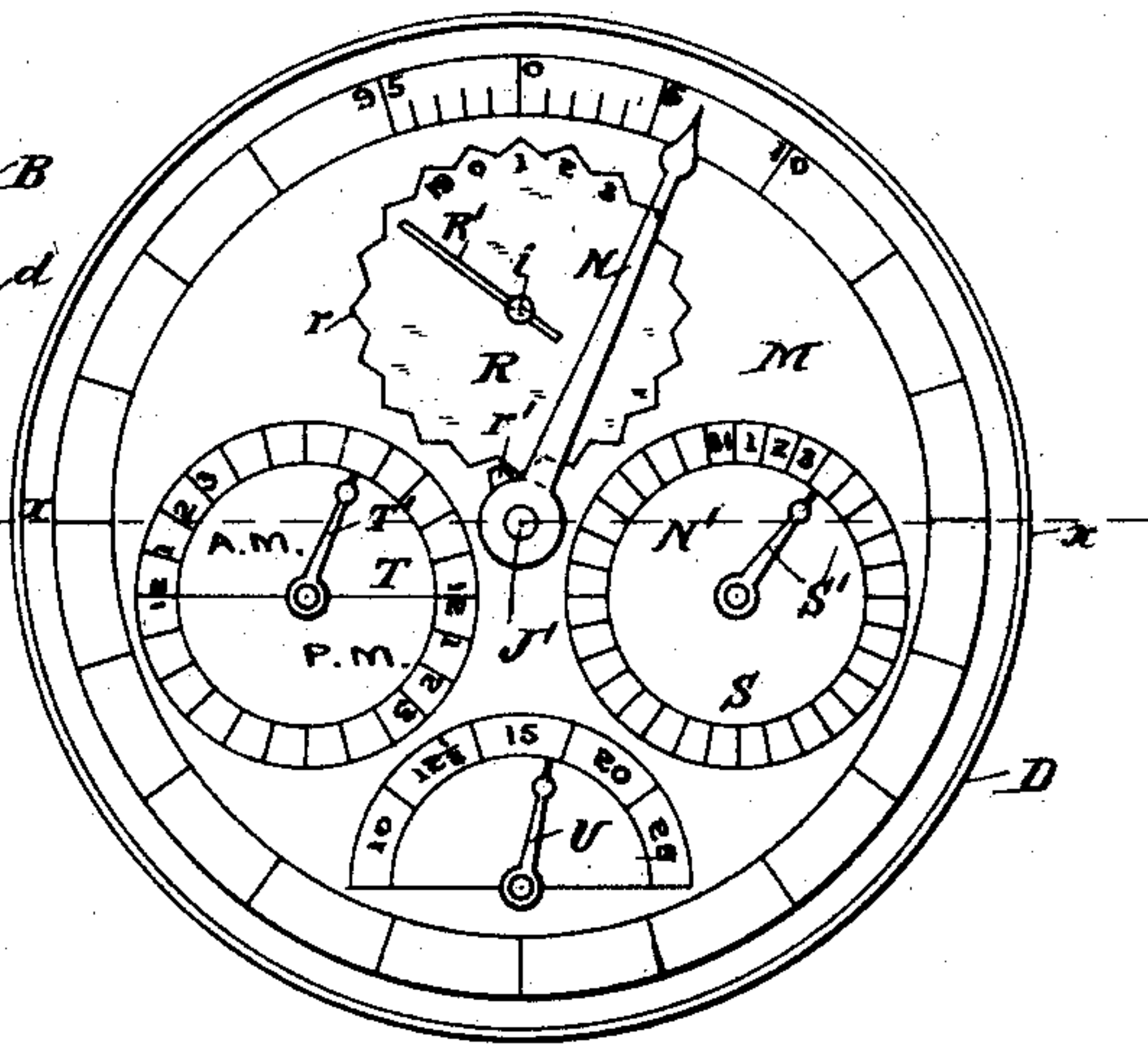


Fig- 3 -

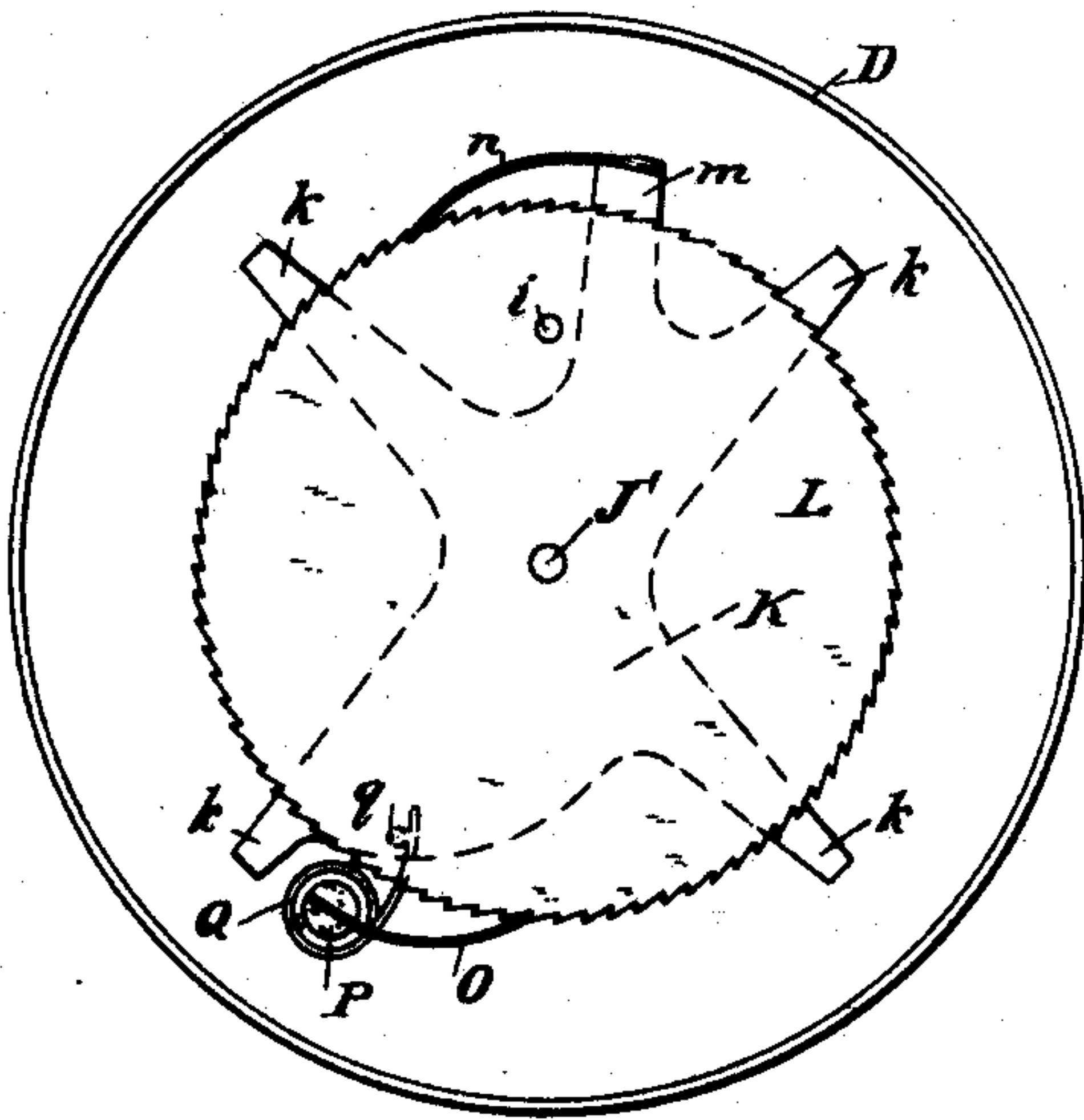
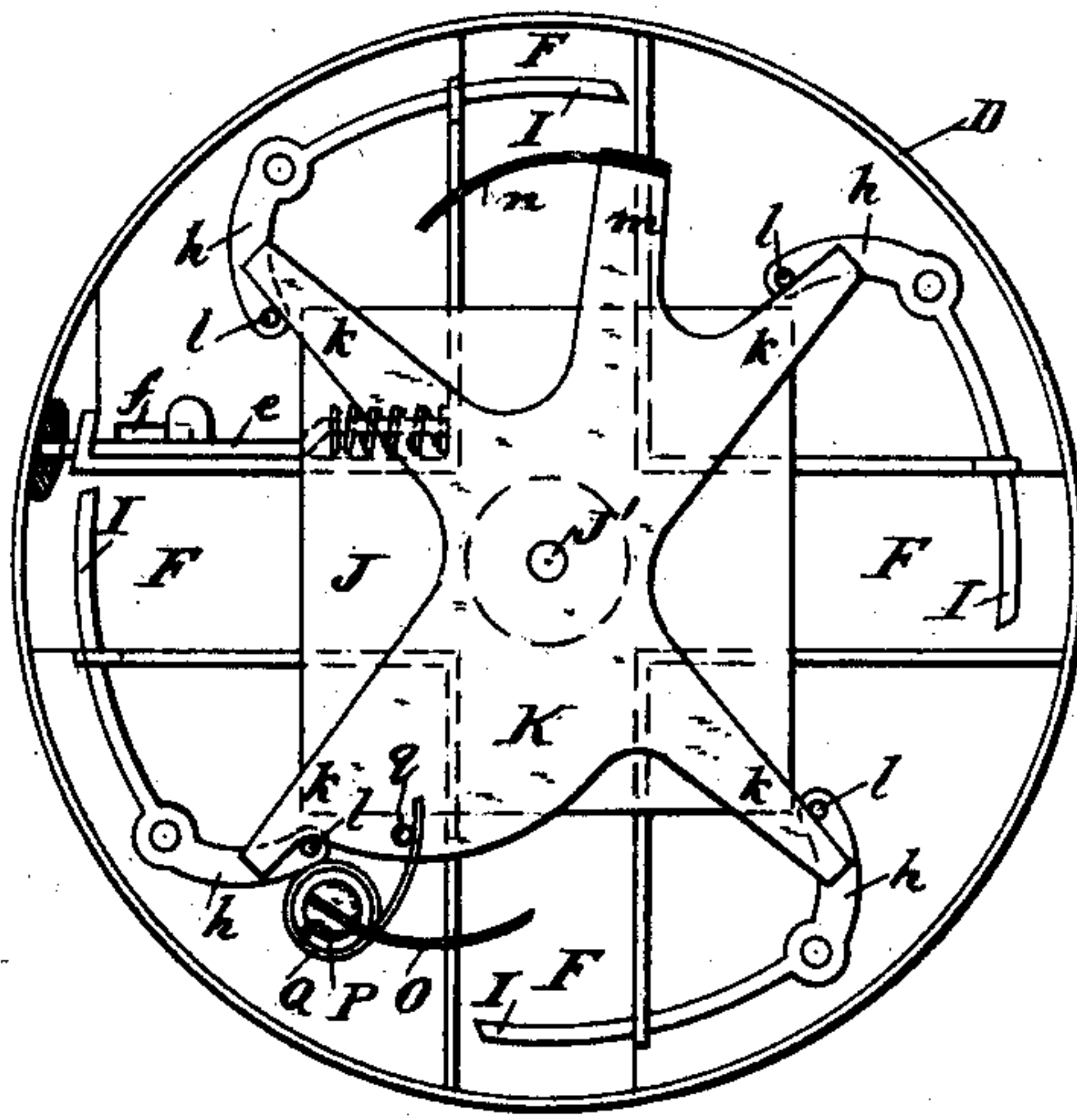


Fig- 4 -



WITNESSES

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DRINK-REGISTERING ATTACHMENT FOR BOTTLES.

SPECIFICATION forming part of Letters Patent No. 421,091, dated February 11, 1890.

Application filed September 27, 1889. Serial No. 325,336. (No model.)

To all whom it may concern:

Be it known that I, HENRY C. BARKER, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Drink-Registering Attachments for Bottles; and I do hereby 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 the letters of reference marked thereon, forming part of this specification.

My invention consists in the improvements in drink-registering attachments for bottles hereinafter set forth and explained, and illustrated in the accompanying drawings, in which—

Figure 1 shows a transverse section of my drink-registering mechanism on the line $x x$ in Fig. 2, the bottle being shown in elevation. Fig. 2 is a plan view showing the dials. Fig. 3 is a plan view of the ratchet-wheel and the apparatus for rotating the same, showing also the outline of the case. Fig. 4 is a plan view of the case and the apparatus contained therein, with the dial and ratchet-wheel removed.

Like letters refer to like parts in all the figures.

The objects of my invention are to provide a drink-registering device adapted to be secured to the bottom of a liquor-bottle, which will automatically register a drink each time the bottle is turned down sidewise, said mechanism being so secured to the bottom of the bottle as to prevent its being tampered with.

Other features of my invention are hereinafter set forth in the specification and claims.

In the construction of my invention shown, A is a section of the bottle-bottom, and B a metallic shell firmly secured to the bottom thereof, so that the lower edge b thereof projects some distance below the bottom C of the bottle A.

The registering mechanism of my device is contained in a case D, the upper edge d of which is adapted to fit into the downwardly-projecting portion of the ring B, where it is securely locked by a spring-catch e , which se-

curely retains the case D until unlocked by the insertion of a suitable key (not shown) into a key-hole f in the bottom of the case D, which operates to unlock the case D from the ring. However, any suitable locking mechanism may be used, if desired, to lock these parts together.

Within the case D are four radial passages F equidistant from each other at the periphery of the case D and meeting at the center thereof in the depression G, toward which depression G all of the passages F are horizontally inclined, so that when the bottle A, to which the case D is attached, stands upright a ball H, operating in said inclined passages F, will always return to and rest in the central depression G; but when the bottle A is turned over to one side the ball H will travel outward in one of the passages F until it strikes and actuates one of the bell-crank levers I, as and for the purpose hereinafter set forth, at the outer ends of said passages, where it remains until the bottle A is again turned to an upright position.

Over the central depression G, I secure to the top of the walls of the passages F a disk or plate J, in the center of which disk J is secured a stud-pin J' , which projects upward, forming the axis of the carrier-plate K, the ratchet-wheel L, and dial M, forming a bearing upon which these plates rotate.

Above the dial M the stud-pin J' has secured thereto a fixed hand N, under which the dial M rotates.

To the under side of the dial M is secured the ratchet-wheel L by means of a stud-pin i , so that the ratchet-wheel L and dial M will rotate together.

The carrier-plate K is provided with arms k , adapted to engage with stud-pins l in the short arms h of the bell-crank levers I, which operate to move the carrier-plate K forward. On one side of the carrier-plate K is also an arm m , to which is secured a spring-dog n , which operates on the teeth of the ratchet-wheel L, so that each movement of the carrier-plate carries the spring-dog n back one tooth on the ratchet-wheel L, the ratchet-wheel L being prevented from any backward movement by means of a spring-dog O, secured to a post P in the case D. A spring

Q is also secured to the post P, which engages with a catch *q* on the carrier-plate K, so that when the ball H moves away from the lever I this spring *q* operates to return the carrier-plate K back to its normal position, this operation carrying the ratchet-wheel L forward one tooth, and also the dial M forward one space, the dial M being spaced around its periphery to correspond with the number of teeth in the periphery of the ratchet-wheel L.

In operation, each time the ball H contacts with one of the levers I it operates the mechanism, as described, so as to move the dial M around under the fixed hand N one space, so that one revolution of the dial M indicates one hundred. On the face of the dial M is also pivotally secured a small dial R, the periphery of which is provided with teeth *r*, one of which teeth engages with a fixed pin *r'*, projecting from the under portion of the hub N' of the fixed hand N, and moves the dial R forward under a fixed hand R' one notch at each complete revolution of the large dial M. On the face of the dial M is also a small circular scale S, indicating the days of the month, and a hand S', centrally pivoted therein, so as to be moved around to indicate the day of the month. There is also another scale T spaced off to indicate the hours of the day—forenoon and afternoon—and provided with an hour-hand T', by means whereof the hour may be indicated. Another hand U is also pivoted to the face of the dial M, to indicate the price at which the drinks are to be sold.

In setting my register the dial M is moved around until the hand N is on the last mark in the circle, and the small dial R set so that the fixed pointer R' will point to the last number thereon. The hand T' is turned to the hour of the day, and the hand S' on the dial S to the day of the month, and the hand U to the figures which indicate the price at which the drinks are to be sold. The case D is then secured to the ring upon the bottom of the bottle A, so that no one not having a key thereto can in any wise tamper with the mechanism inside of the case D.

In operation, each time the bottle is turned over on its side the ball H rolls along one of the inclined passages F, and contacts with one of the ratchet-levers I, which operates to turn the dial M forward one notch. When the bottle is raised to a perpendicular, the ball H again rolls back into the central depression G. This operation is repeated auto-

matically each time the bottle is turned over on its side, so that when the case D is unlocked and removed from the bottle A the dials M and R will show the exact number of times the bottle A has been turned down on its side since it was set last, the time of which is also indicated by inspection of the scales S and T.

Having thus fully described my invention, so as to enable others to construct and use the same, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. The combination, with the inclosing-case adapted to be locked to the bottle-bottom and provided with a central depression and upwardly-inclined guide-passages radiating therefrom, of registering mechanism supported in the case, pivoted levers operatively connected with said registering mechanism and projecting into said guide-passages, and a ball normally resting in said central depression and adapted to operate one of the said levers each time the bottle is tilted, substantially as and for the purpose set forth.

2. The combination, with the case provided with a central depression and upwardly-inclined passages radiating therefrom, of a ball normally resting in said depression, the pivoted levers projecting into said guide-passages, a pivoted carrier-plate provided with arms and adapted to be oscillated by said levers, a spring for returning the plate, a ratchet-wheel, a spring-pawl secured to the plate for rotating said ratchet-wheel, and a stationary pointer, whereby the said dial may be moved under the pointer each time the ball operates one of the said levers, substantially as and for the purpose set forth.

3. The combination, with a shell adapted to be permanently secured to a bottle-bottom, of a removable inclosing-case adapted to be locked to said shell, and registering mechanism concealed in said case and comprising a dial automatically indicating the number of times the bottle is tilted to pour out liquor, and two separate dials indicating the hour and day upon which the case was last locked to the shell, substantially as and for the purpose set forth.

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

HENRY C. BARKER.

Witnesses:

A. E. WAGNER,

G. O. THRELKELD.