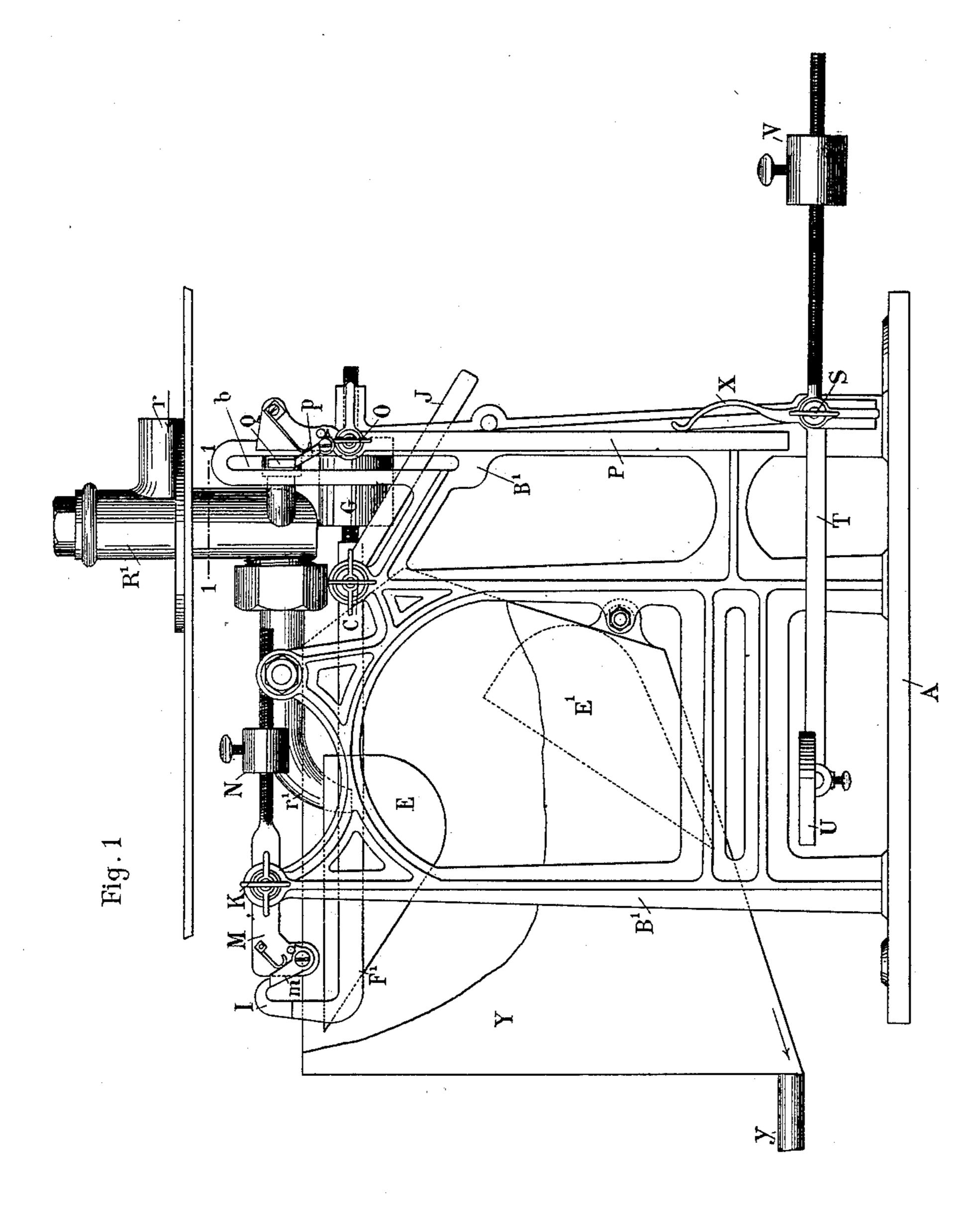
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H. SCHLOESING & B. DÉGREMONT.

LIQUID VENDING APPARATUS.

No. 462,778.

Patented Nov. 10, 1891.



Mitnesses:

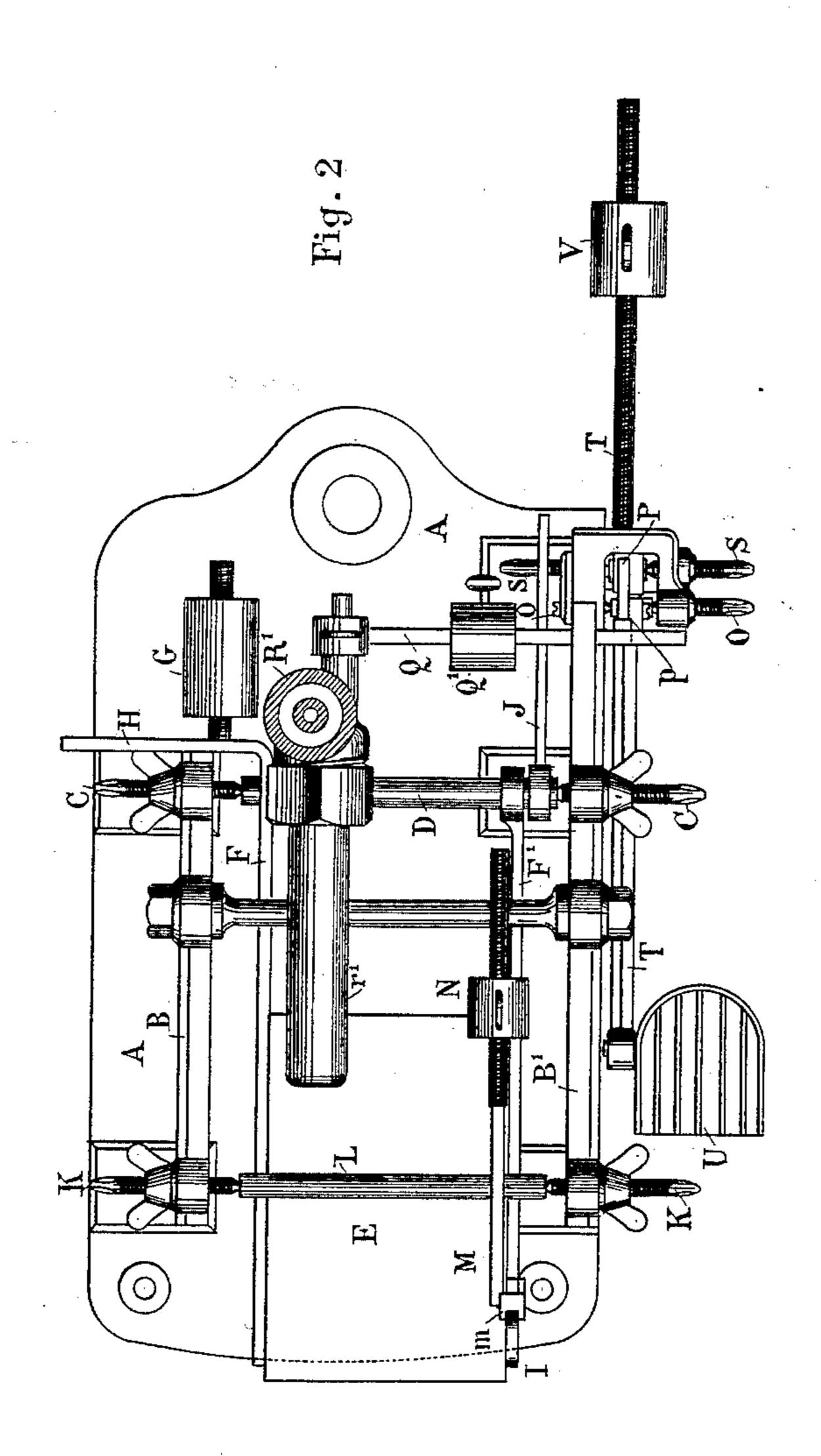
Inventors Henri Schloesing ad Benj Segremont

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Witnesses:

Million St. Berukar

Inventors.

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Bey: Degremont

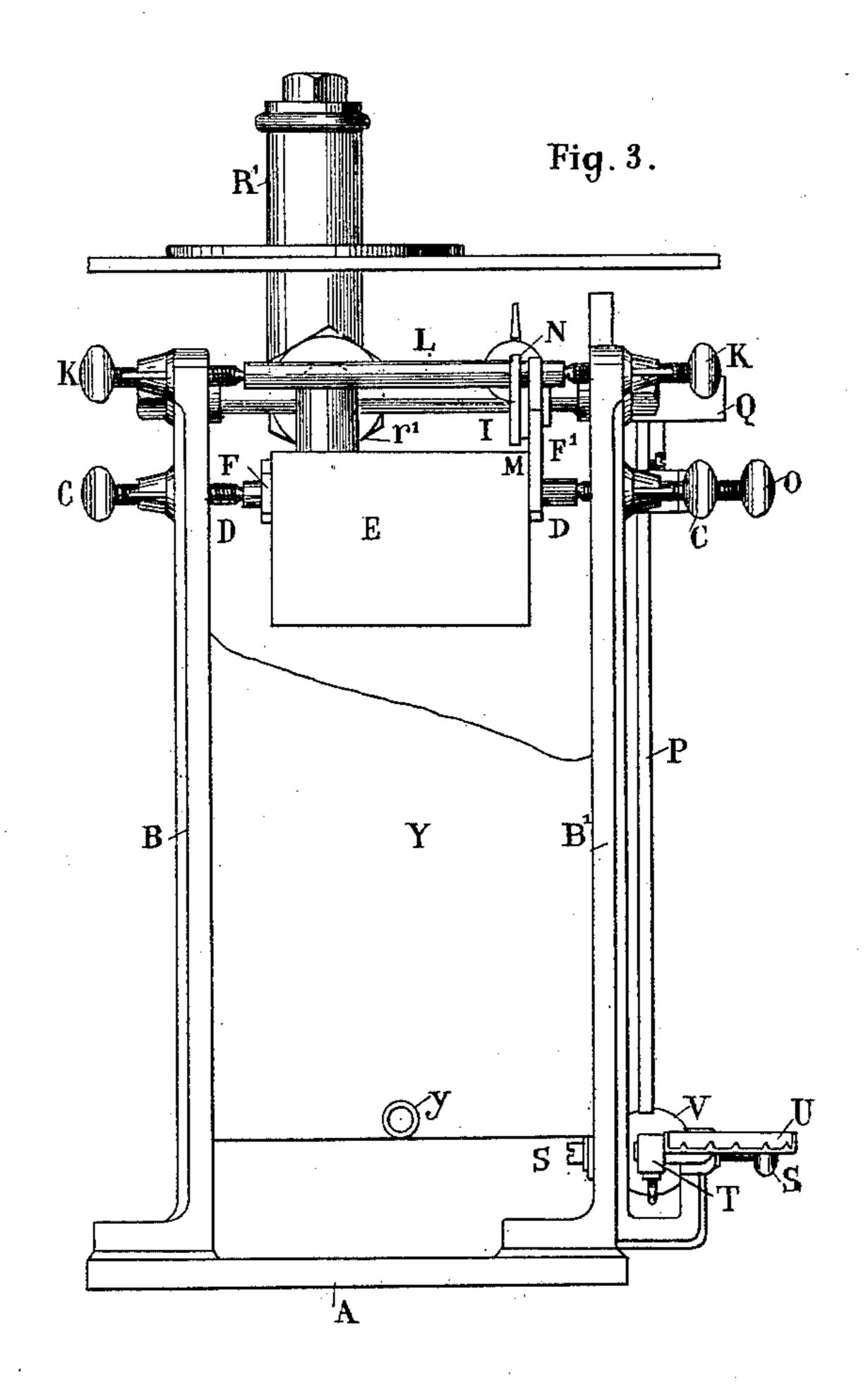
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Associate arms

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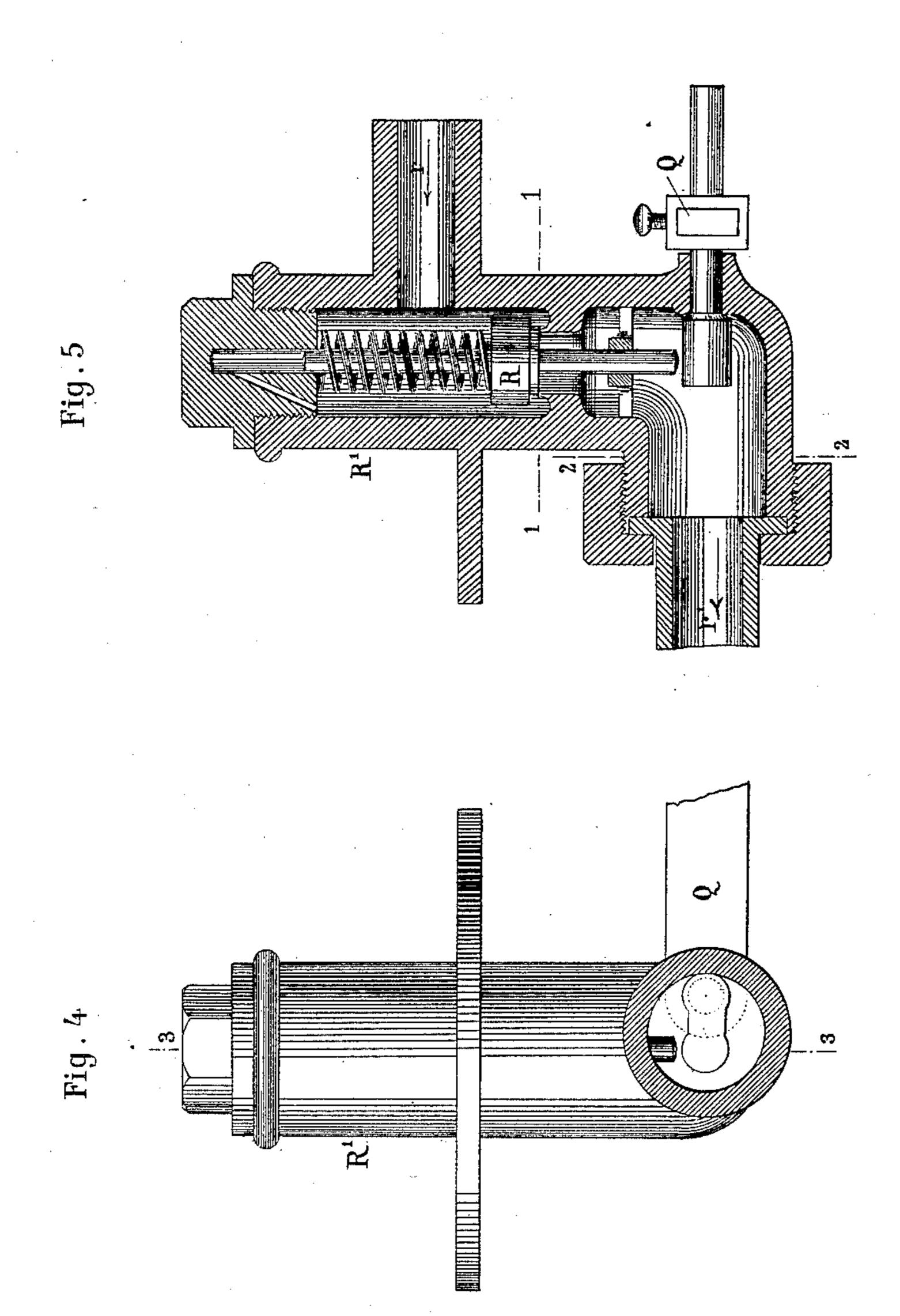
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Witnesses:

Treventors. Henri fehloesing and Benj. Degremont

United States Patent Office.

HENRI SCHLOESING AND BENJAMIN DÉGREMONT, OF MARSEILLES, FRANCE.

LIQUID-VENDING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 462,778, dated November 10, 1891.

Application filed April 4, 1891. Serial No. 387,654. (No model.) Patented in France August 16, 1890, No. 207,660.

To all whom it may concern:

Beitknown that we, HENRI SCHLOESING and BENJAMIN DÉGREMONT, citizens of France, residing at Marseilles, France, have invented cer-5 tain new and useful Improvements in Liquid-Vending Apparatus, (for which we have obtained a patent in France, dated August 16, 1890, No. 207,660;) and we do hereby declare the following to be a full, clear, and exact to 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 15 form a part of this specification.

This invention has for its object a new apparatus for automatically delivering liquid, a predetermined quantity being served out by introducing a coin of a given value.

The apparatus is shown in the annexed

drawings, in which—

Figure 1 is a side elevation of the mechanism. Fig. 2 is a plan, partly in section on the line 1 1, Figs. 1 and 5. Fig. 3 is a front view 25 of the mechanism. These three figures are half size. Fig. 4 is an elevation, partly in section on the line 22, Fig. 5, of the valve and parts connected therewith. Fig. 5 is a section on the line 33, Fig. 4. Figs. 4 and 30 5 are full size.

In the drawings the same parts are marked

with the same letters in all the figures.

A is a base-plate on which the two uprights BB', forming the frame of the apparatus, are 35 fixed. These uprights are bored with a number of threaded holes in which pointed steel thumb-screws engage. These screws serve as pivots for the various parts of the mechanism.

Between the screws C C is mounted an axis D, to which two parallel arms F F', of tinned copper, are fixed. E is a balanced receptacle mounted between the arms F F'. The arm F has at its rear an arm H, provided with an 45 adjustable counterbalance-weight G to balance the receptacle E. This arm II also serves to actuate a registering-counter, which is not shown in the drawings. The arm F' terminates at one end in a hook I, which rests on 5c the catch m. The axis D also carries an inclined lever J. The screws K K serve as pivots for a shaft L, on which is mounted an

arm M, having a counterbalance-weight N. The front end of the arm M carries the catch m. The screws O O act as pivots to a vertical 55 lever P, the short arm of which is provided with a catch p. The catches m and p are spring-catches, as shown; but in some cases we prefer to replace the springs by balanced weights.

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Q is the lever which controls the valve R. The end of this lever rests upon the catch pwhen the valve is shut. The lever Q carries an adjustable weight Q'. The screws S S serve as pivots for the horizontal lever T. 65 This lever carries at one end a coin-holder U and at the other an adjustable counterbalance-weight V. On this lever an arm X is fixed vertically, so as to actuate the lever P. Y is a funnel of metal, caoutchouc, or other 70 suitable material, in which is the balanced receptacle E. The funnel is fixed to the frame in any suitable manner. It is provided with a tube y. In Figs. 1 and 3 we have cut away a part of the funnel Y in order to show the 75 interior mechanism. In Fig. 2 it is not shown at all.

R' is the valve-shell fixed in the apparatus in any suitable manner. It is placed so that the actuating-lever Q can work freely in the 80 slotted guide b, formed in the upright B' of the frame. The shell R' is provided with two pipes r and r'. The pipe r serves to supply the liquid from any suitable reservoir. The liquid flows from the shell by the pipe r', 85 placed above the balanced receptacle E. The direction of the flow of liquid through the apparatus is shown by arrows.

We have not shown in the drawings any of the exterior casing of the apparatus nor the 90. reservoir for the liquid. We have also not shown the arrangement for leading the coin to the holder, for these we may employ any

suitable arrangements.

Working of the apparatus.—When the coin 95 of the proper value is introduced in the apparatus, it falls into the coin-holder U. The counterbalance - weight V being suitably placed, the lever T oscillates on its shaft, carrying with it the arm X, which presses for 100 ward the lever P. The catch p is displaced and moves from the lever Q in the valve-shell R'. The lever Q, being no longer supported, falls (being actuated by its weight Q') in the

slotted guide b and opens the valve R in the valve-shell R'. The liquid to be delivered flows by the pipe r' into the balanced receptacle E. The counterbalance-weight G of the 5 balanced receptacle E is placed so that when there is no liquid in the balanced receptacle. it is perfectly level. When the liquid comes into the balanced receptacle, the weight of the latter increases, and when this weight is suf-10 ficient to balance the counterbalance-weights G and N the hook I leaves the catch m. The balanced receptacle descends quickly, taking the position E'. (Shown in dotted lines in Fig. 1.) At this moment the lever J raises the 15 lever Q, which again engages with the catch p, thus closing the valve R in the shell R'. The balanced receptacle E, after having delivered its liquid into the funnel Y, automatically resumes its place by reason of its coun-20 ter-weight G. The hook I again engages with the catch m and the apparatus is ready to work a second time.

Having now particularly described and ascertained the nature of our said invention 25 and in what manner the same is to be performed, we declare that what we claim is—

1. The combination of the horizontal lever T with its coin-receiver and arm, the vertical lever P with its catch, and the lever Q for 30 actuating the valve.

2. The combination, with the shaft D, of the arms F F', carrying the balanced receptacle E, and the lever J to raise the lever Q for closing the valve.

its hook I, of the balanced lever M and its catch m.

4. A liquid-vending apparatus comprising a main shaft, a receptacle secured to said shaft 40 by arms, one of which is provided with an adjustable weight, an inclined arm also attached to said main shaft, a valved conduit intermediate of the receptacle and a suitable reservoir, and means, substantially as shown and 45 described, for delivering a certain predetermined quantity of liquid from the reservoir to the receptacle, substantially as shown and described.

5. In a liquid-vending apparatus, the com-50 bination of a main shaft, a receptacle arranged in advance of but connected with the main shaft by parallel supporting-arms, one of said arms being provided with an adjustable weight, a rearwardly-extending inclined 55 lever connected to the main shaft, a valved conduit extending from the receptacle to a suitable reservoir, a shaft journaled in the wall of the conduit and adapted to contact with the valve-rod, a weighted lever connected 60 to said shaft, a vertical lever supporting the free end of the weighted valve-operating lever, and the tray-arm for operating said vertical lever and the valve of the apparatus, substantially as shown and described, for the 65 purpose specified.

6. In a liquid-vending apparatus, the com-

bination of a main shaft, a balanced receptacle carried by said main shaft, a conduit supported above the supports and adapted to convey liquid from a suitable reservoir to the 70 balanced receptacle, a valve in said conduit, a shaft journaled in the walls of the conduit and adapted to contact with the end of the valve-rod therein, a weighted lever attached to said shaft and working in a slot in one of 75 the supports of the apparatus, a vertical lever provided with means for holding or supporting the free end of the valve-operating lever, and a weighted lever pivoted to one ofthe side supports and provided with a coin-80 receptacle and an arm adapted to contact with and operate the vertical lever, substantially as shown and described.

7. In a liquid-vending apparatus, the combination of a main shaft, a balanced recepta- 85 cle supported on said shaft by parallel arms and inclosed within a funnel-shaped vessel provided with a suitable outlet, one of said supporting-arms being weighted and the other arm provided with an upwardly-extending 90 hook, another shaft arranged in advance of the main shaft, a lever fulcrumed on said axis and provided at one end with an adjustable weight and at its other end with a springcatch which engages with the hook end of 95 one of the receptacle-supporting arms, a conduit arranged above the balanced receptacle and extending therefrom to a suitable reservoir, a valve arranged in said conduit, means for delivering a certain quantity of liquid to roo 3. The combination, with the arm F' and | the balanced receptacle, whereby the main shaft is rotated and the liquid in the receptacle discharged through the outlet of the funnel, and weights for returning the receptacle to its normal position when empty, sub- 105 stantially as shown and described.

8. In a liquid-vending apparatus, the combination of the tiltable receptacle having a hook-shaped projection, a balanced lever carrying a detent which engages the hook-shaped 110 projection on said receptacle to sustain the same in its horizontal raised position, a valved conduit, a balanced rock-shaft adapted to open the valve, an arm movable with the tiltable receptacle and arranged in the path of 115 the lever on the rock-shaft, a vertical lever also having a detent which engages the lever of the rock-shaft, and a tray-arm arranged to throw a vertical lever and disengage its detent from the lever of the rock-shaft, substantially 120 as and for the purpose described.

9. In a liquid-vending apparatus, the combination of the tiltable receptacle, a balanced lever M, having a detent which engages the receptacle, a conduit adapted to discharge 125 into said receptacle and having a normallyclosed valve therein, a tray-arm, a vertical lever P, having a detent p, the lever Q, normally sustained by the detent p and adapted to open the valve in the conduit and when re- 130 leased therefrom to engage with the detent p, and an arm J, arranged in the path of the le-

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ver Q and movable with the receptacle to elevate the lever Q as the receptacle descends,

substantially as described.

10. The combination of the tiltable receptacle supported by a shaft, an arm J, rigid with said shaft, a lever Q, adapted to rest upon said arm and connected with a shaft in the path of the valve-stem, a conduit having a spring-pressed valve, a tray-arm, and a lever actuated by said tray-arm and normally sustaining the lever Q in its elevated position, substantially as and for the purpose described.

11. In aliquid-vending apparatus, a tiltable receptacle, a shaft, the arms rigid with said shaft and the receptacle, one arm having an upwardly-projecting hook I and the other arm carrying the weight G, in combination with the balance-lever M, having its detent engaging with the hook, a valved conduit, a tray-arm, and mechanism intermediate of said tray-arm, and the valve in the conduit to open said

valve on the deposit of a coin on the trayarm, substantially as and for the purpose described.

12. The combination, with a tiltable receptacle and a valved conduit adapted to discharge therein, of a balanced tray-arm having a projection, a vertical lever P, arranged in the path of said projection and carrying in its upper end the spring-pressed detent, and lever Q, normally sustaining said detent and adapted to actuate the valve in said conduit, and arm movable with the receptacle and arranged in the path of the lever Q, for the purpose described, and substantially as set forth. 35

In testimony whereof we affix our signatures

in presence of two witnesses.

HENRI SCHLOESING. BENJAMIN DÉGREMONT.

Witnesses:

G. DE MESTRAL, ROBT. M. HOOPER.