

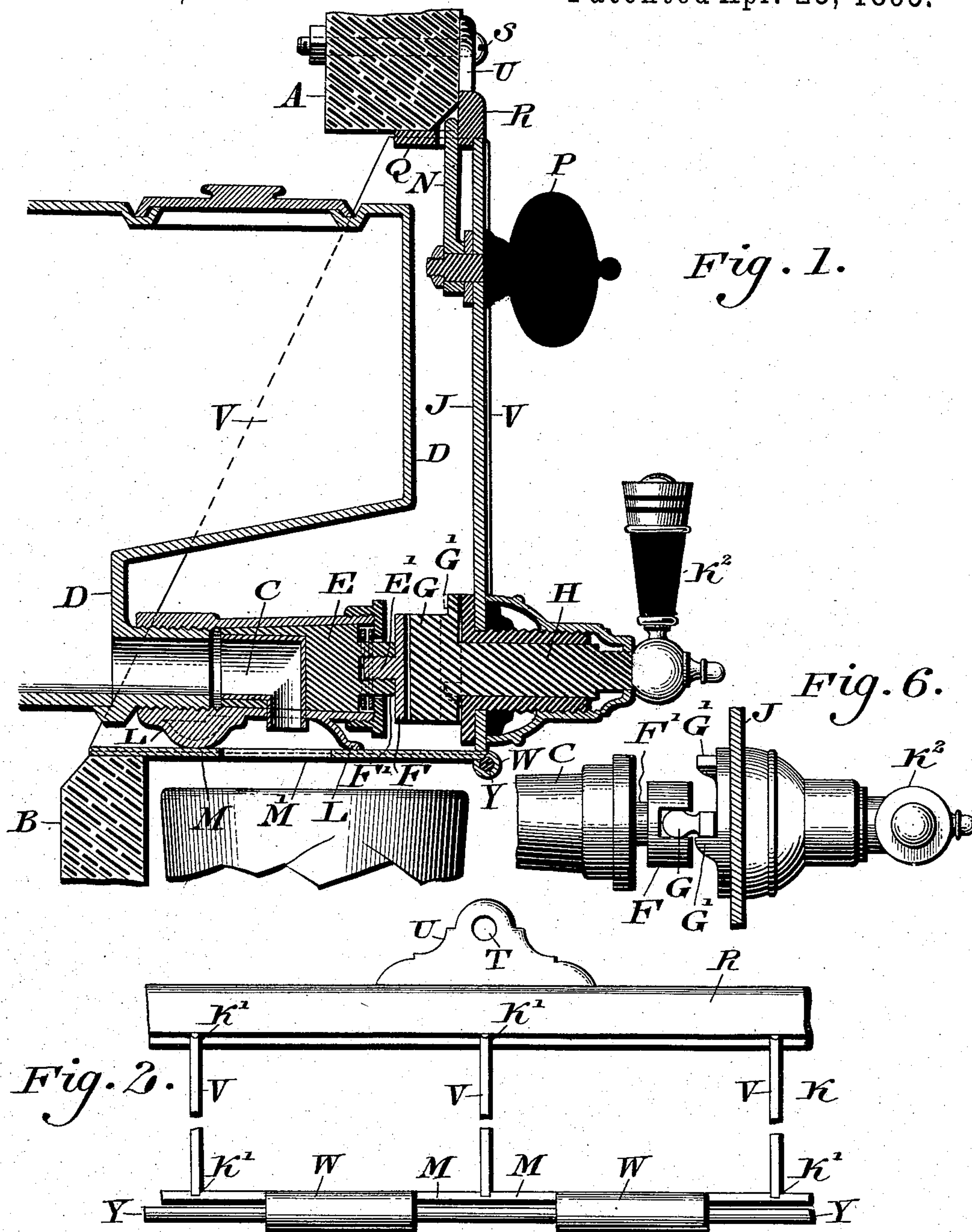
(No Model.)

3 Sheets—Sheet 1.

R. M. GREEN & R. M. GREEN, Jr.
SODA WATER FOUNTAIN.

No. 538,069.

Patented Apr. 23, 1895.



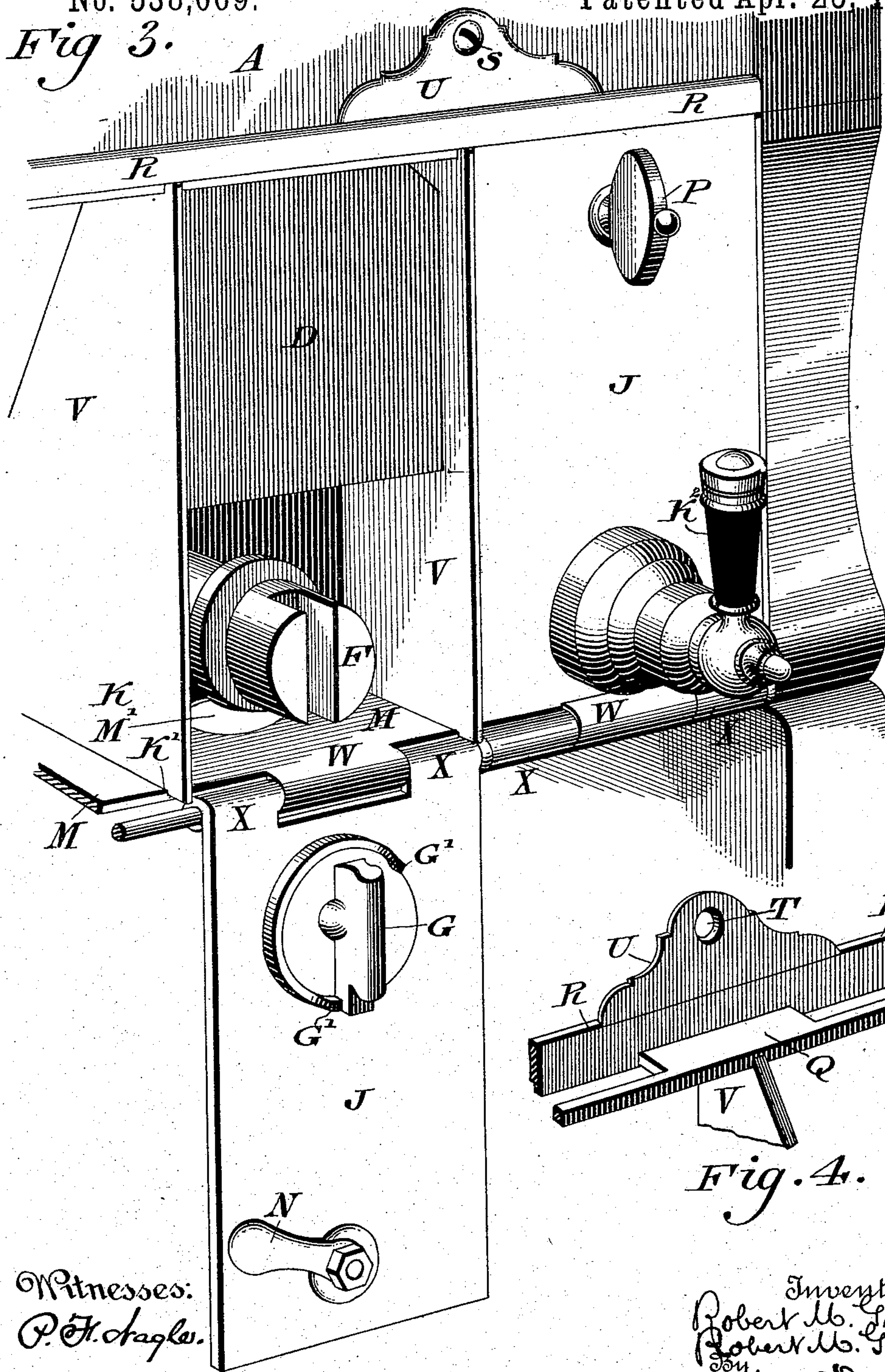
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3 Sheets—Sheet 2.

SODA WATER FOUNTAIN.

Patented Apr. 23, 1895.



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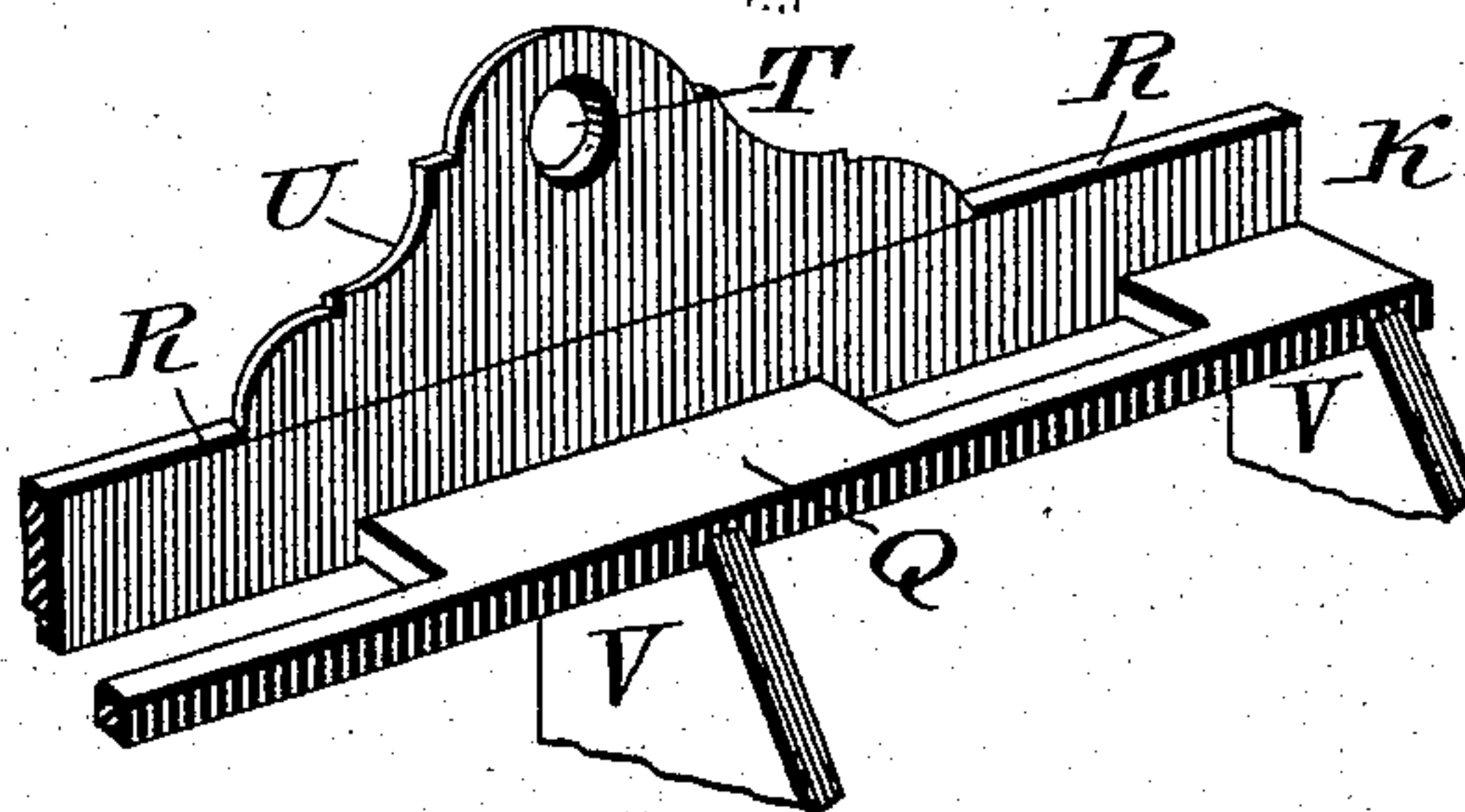


Fig. 4.

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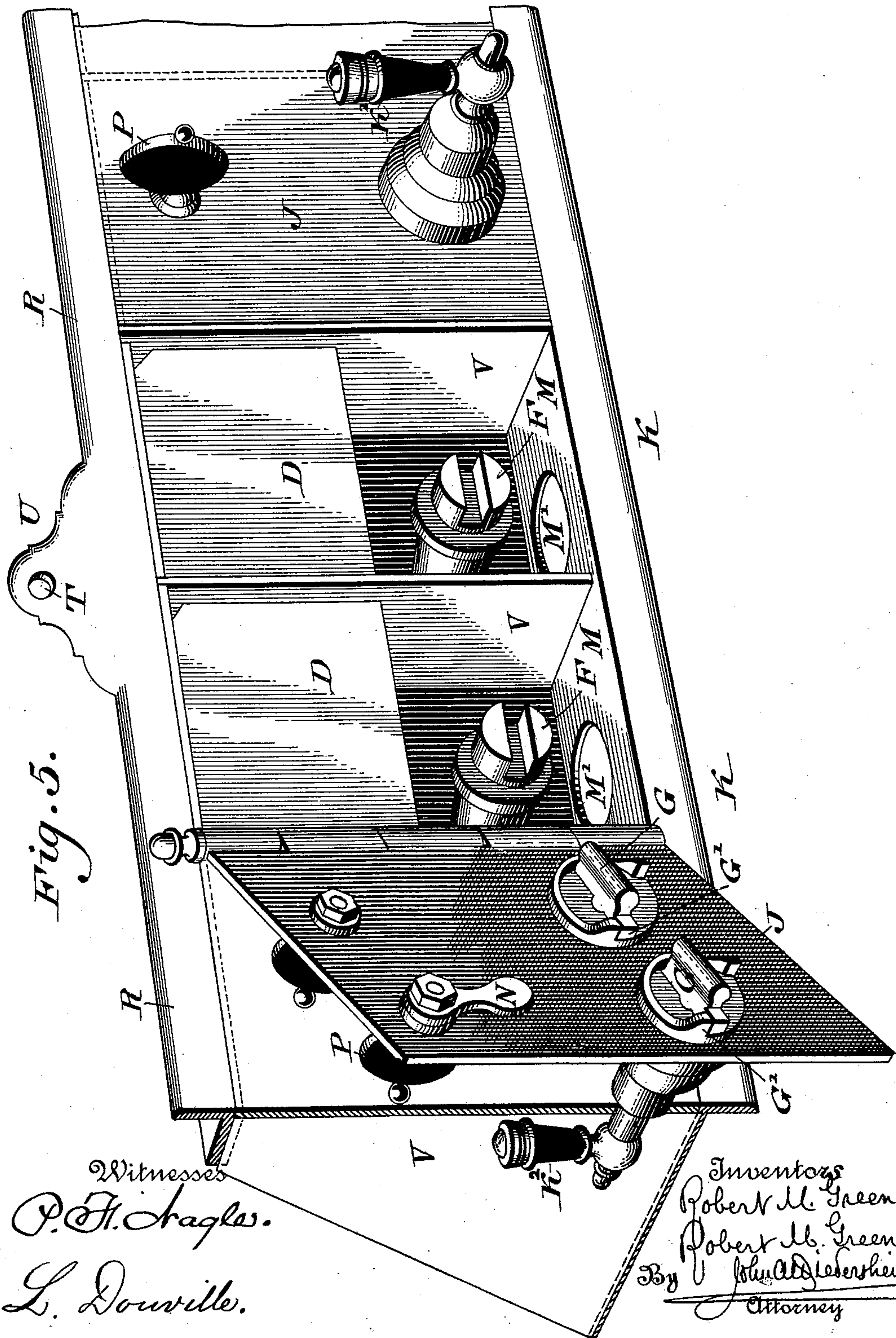
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UNITED STATES PATENT OFFICE.

ROBERT M. GREEN AND ROBERT M. GREEN, JR., OF PHILADELPHIA,
PENNSYLVANIA.

SODA-WATER FOUNTAIN.

SPECIFICATION forming part of Letters Patent No. 538,069, dated April 23, 1895.

Application filed November 16, 1894. Serial No. 528,995. (No model.)

To all whom it may concern:

Be it known that we, ROBERT M. GREEN and ROBERT M. GREEN, Jr., citizens of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Soda-Water Fountains, which improvement is fully set forth in the following specification and accompanying drawings.

Our invention consists of a soda water fountain having detachable connections for the valves of the sirup jars with the handles thereof, said handles being mounted on the doors in front of said jars said connections being adjustable in length.

It also consists of a partitioned metallic frame through which the jars may be introduced into the casing and removed therefrom, said frame being a construction separate from the casing, but attached stationary to the same, and having the doors hinged thereto whereby said frame does not slide in or out while introducing or removing the jars.

It also consists in forming the knuckles of the hinges of the doors integral respectively with said doors and the plates with which they are connected.

Figure 1 represents a vertical section of the portion of a soda water fountain embodying our invention. Fig. 2 represents a front view of said portion, the door and some other features having been removed therefrom. Fig. 3 represents a perspective view thereof on an enlarged scale. Fig. 4 represents a rear view of the upper portion of the frame embodying our invention. Fig. 5 represents a perspective view of a modification, and Fig. 6 represents a top view of a corresponding portion shown in section in Fig. 1.

Similar letters of reference indicate corresponding parts in the several figures.

Referring to the drawings, A designates a portion of the upper part of the casing of a soda water fountain, and B designates a portion of the lower part thereof.

C designates the discharge valve or cock of the jar D, the same being connected with the latter in any suitable manner. The plug E of said valve is provided with a bifurcated or grooved head F, the bifurcation or groove receiving the tongue G, which is formed with or attached to the stem H, the latter being

suitably mounted in the door J, which is hinged to the frame K and provided with a suitable knob or handle K², whereby the tongue may be rotated in either direction for opening or closing the valve C. It will be seen that when the door is closed, the tongue engages with the head F, so that when the handle K² is operated in one direction, the plug E will be rotated to open the valve C for discharging the sirup. When the handle is rotated in the other direction, the valve will be closed, thus cutting off the discharge of the sirup. When it is desired to open the door, the same is swung outwardly and the tongue follows the same, leaving the head F, it being evident that the tongue is disconnected from the valve. The jar is then accessible, so that it may be removed for purposes requiring the same. When the jar is again in position, the door is closed, and the tongue enters the bifurcation or groove in the head of the plug, thus connecting the valve with the stem of the same, so that it may be operated by the knob or handle thereof.

On the inner end of the head F, is a threaded stud E', which is fitted to a threaded sleeve F' on the plug E, thus providing a connection for said head and plug, and permitting the adjustment of the same whereby said head may be set farther out or in on said plug, so that the tongue G may be properly seated in said head, the frame however, in the assembled fountain being always stationary, or rigidly connected with the casing, so that when the doors are opened, the jars may be removed and restored without disturbing the frame, or imparting sliding motions to the latter, in order to handle said jars.

The shell of the valve C, has on its under side the depending boss L, which is rested on the bottom wall M of the frame K, over and around the opening M' in said plate, through which the sirup flows from the valve into the drinking vessel, said boss forming a tight joint below the shell for preventing dust, &c., from entering the frame K through said opening. It will be noticed that the frame sets out from the portion B of the casing on which it rests, so as to receive the drinking vessel below the plate M of said frame.

In order to hold the door J in a closed position, we employ the catch or latch N, which

is provided with the knob P and adapted to engage with the slotted portion Q of the rear of the top plate R of the frame K, it being noticed that said frame consists of said plate 5 R, the bottom plate M, and the vertical plates or partitions V, said plates being formed of suitable metal. The top plate is secured to the portion A of the casing by means of a screw S passing through openings T in 10 the ear U on said plate into said portion A, or said openings may be directly in said plate. The bottom plate M of the frame is rested on the lower portion B of said casing. In the top and bottom plates are grooves K' 15 to receive the plates or partitions V, and firmly hold the same in position, it being noticed that the frame K produces chambers through which jars may be introduced into the casing and removed therefrom, it being 20 also noticed that owing to the top, bottom and vertical plates, the frame K, produced from the same, will be found to be strong, light and durable, and in its entirety may be readily removed from the casing without dis- 25 turbing the latter, and as readily restored thereto. On the bottom plate M is a knuckle W, and aside of the same are the knuckles X of the door J. A pintle Y is passed through the knuckles, thus forming the hinge of the door, 30 it being noticed that said knuckles are respectively integral portions of the plate M and door J, produced by properly shaping or bending up parts of the metal of said plate and door.

35 In Figs. 1, 2 and 3, the door is adapted to drop, while in Fig. 5 a door is shown as opening sidewise, in which case some of the knuckles are formed on the plates or partitions V, said door being also adapted to cover two jar-com- 40 partments on the frame K.

On the inner end of the bearings for the stem H are shoulders G', which are separated a sufficient distance to form stops for limiting the rotation of the tongue G to insure ex- 45 actness in the opening and closing motions of the valve C. In reference to the title, soda water fountain, we include therein, apparatus for dispensing mineral water, root beer, &c.

Having thus described our invention, what 50 we claim as new, and desire to secure by Letters Patent, is—

1. In a soda water fountain, a partitioned frame made independent of the casing there- 55 of, and formed of horizontal and vertical plates, a valve having its shell adapted to be secured to a sirup jar in said casing, and a hinged door on said frame, the stem of said valve being mounted in said door, and detachably connected with the plug of said 60 valve, and the frame made of metal, and having means for immovably connecting it with the casing, the parts named being combined substantially as described.

2. In a soda water fountain, the combina- 65 tion of a door, a rotatable stem on said door, a discharge valve detached from said stem, and a threaded stud and a threaded sleeve,

intermediate of the plug of the valve, and the head thereof, for adjustably connecting said stem with said valve, substantially as 70 described.

3. A soda water fountain having a remov- 75 able sirup jar therein, a discharge valve, a boss on the shell of the latter surrounding an opening in the bottom plate of the connected frame of the casing below the discharge nozzle of 80 said valve, a door on said frame, a rotatable tongue with its stem mounted in said door, and a head on the plug of the valve adapted to be engaged by said tongue, said parts be- 85 ing combined substantially as described.

4. In a soda water fountain, a door, a dis- 90 charge valve, and a handled stem on said door detachable from the plug of said valve, in combination with a tongue on said stem, a 85 head on said plug receiving said tongue, and a stud and sleeve intermediate of the head and plug adjustably connecting said stem and 95 plug, substantially as described.

5. In a soda water fountain, a partitioned 90 frame through which the sirup jar may be introduced into and removed from the casing of the fountain, formed of metallic plates, and made independent of said casing, said 95 frame having means for immovably connecting it with the casing, and provided with a swinging door, and formed with a slotted plate such as Q, for the engagement of the catch of said door substantially as described.

6. A partitioned frame for a soda water 100 fountain, formed of metal and composed of top and bottom horizontal plates and inter- mediate vertical plates secured thereto, said frame being made independent of the casing 105 of the fountain, and having its vertical plates fitted in grooves in the horizontal plates, the frame being provided with means for immov- 110 ably connecting it with the casing substantially as described.

7. A soda water fountain having a casing, 110 and a partitioned frame independently attached to said casing and formed of horizontal and vertical plates suitably connected, and a door hinged to either of said plates, the 115 frame being formed of metal and having means for immovably connecting it with the casing, the parts being combined substan- 120 tially as described.

8. A soda water fountain having a casing, 120 and a partitioned frame independent of said casing formed of metal, and provided with a door, knuckles on said door, and the plate of the frame on which the same is mounted, and a pintle passed through said knuckles, form- 125 ing a hinge for said door, said knuckles being integral respectively with said door and plate, the frame having means for immovably se- curing it to the casing and the parts combined 130 substantially as described.

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