(No Model.) 3 Sheets—Sheet 1.

W. P. CLARK.

SODA WATER DISPENSING APPARATUS.

No. 251,412. Patented Dec. 27, 1881.

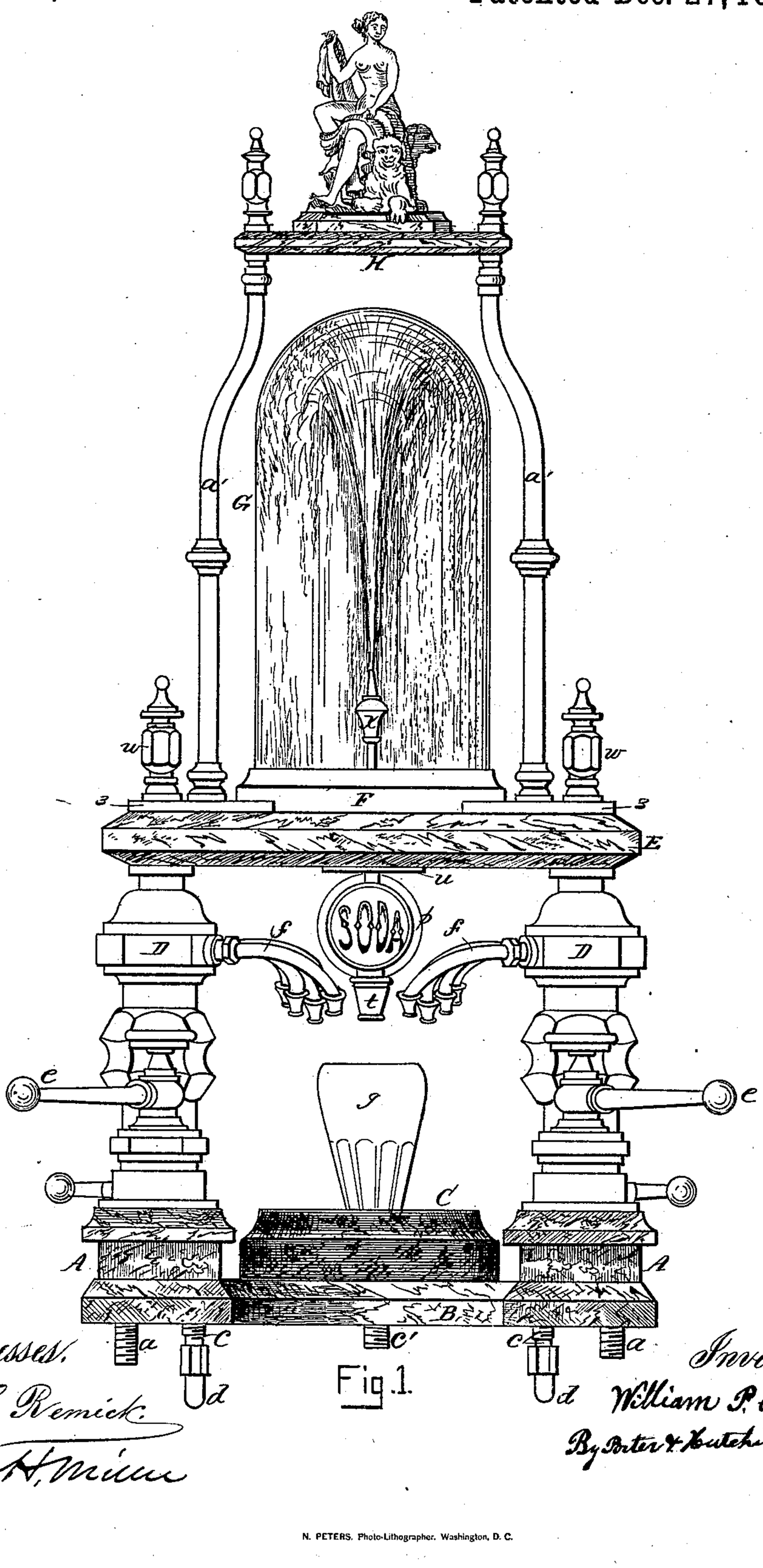

Fig. 1.

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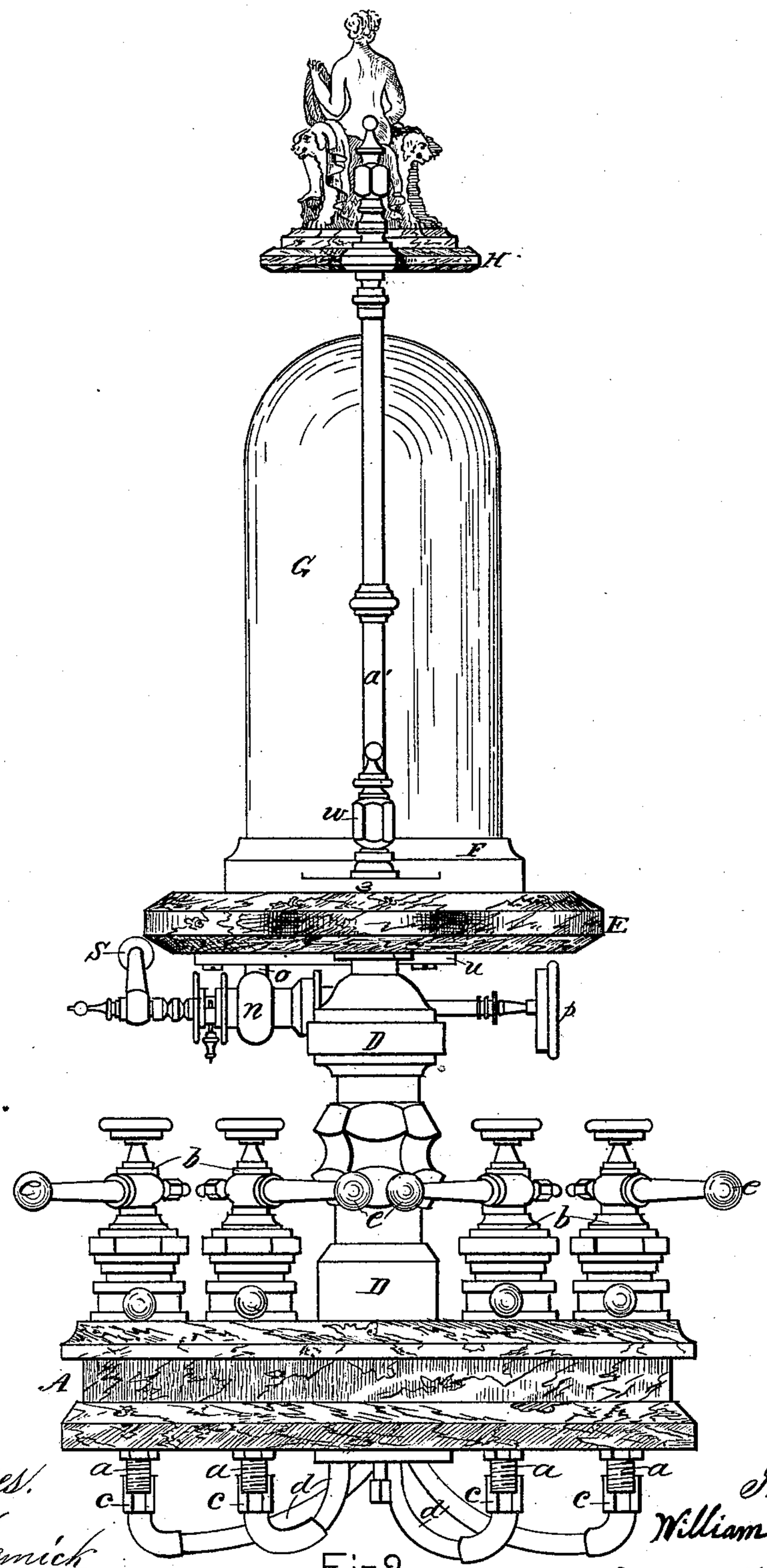

Fig. 2.

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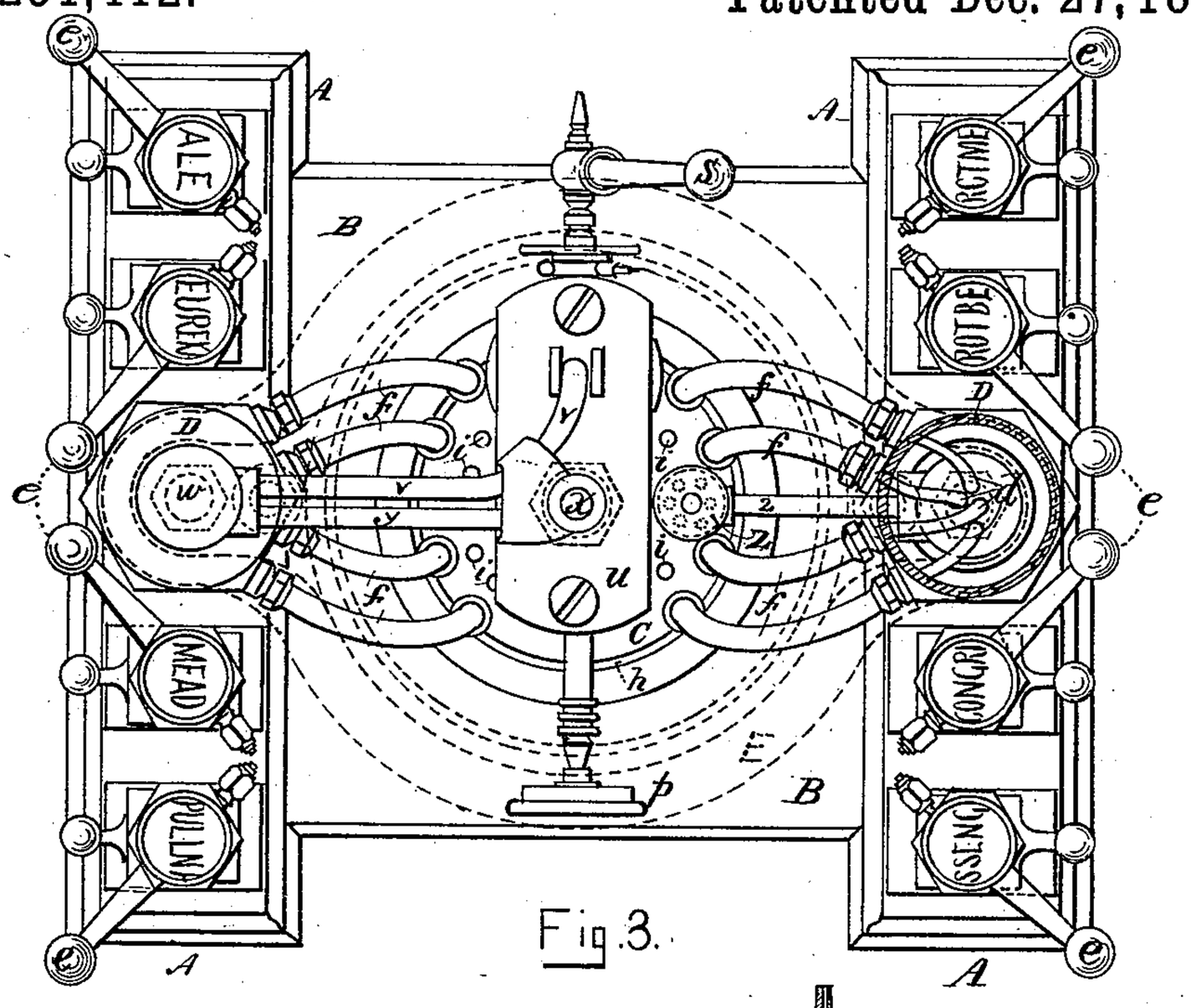

Fig. 3.

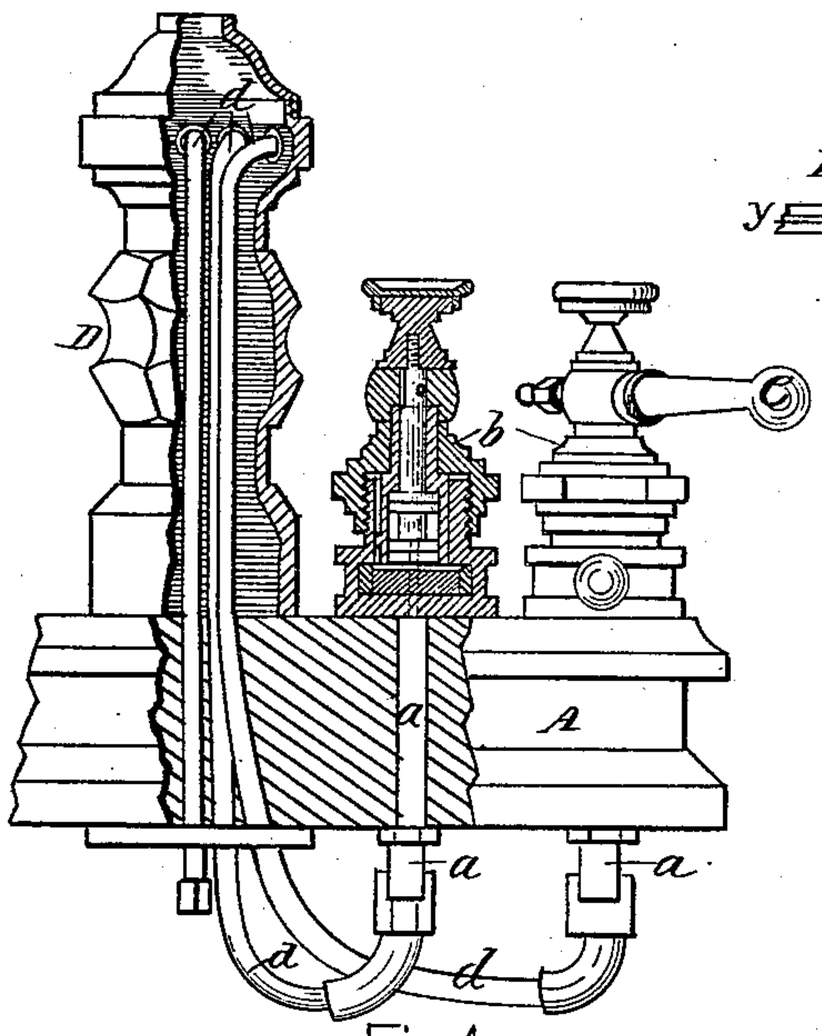

Fig. 4.

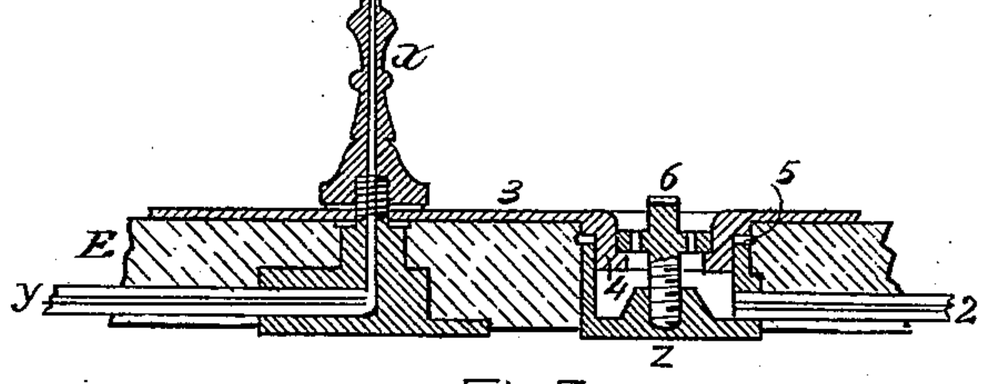

Fig. 5.

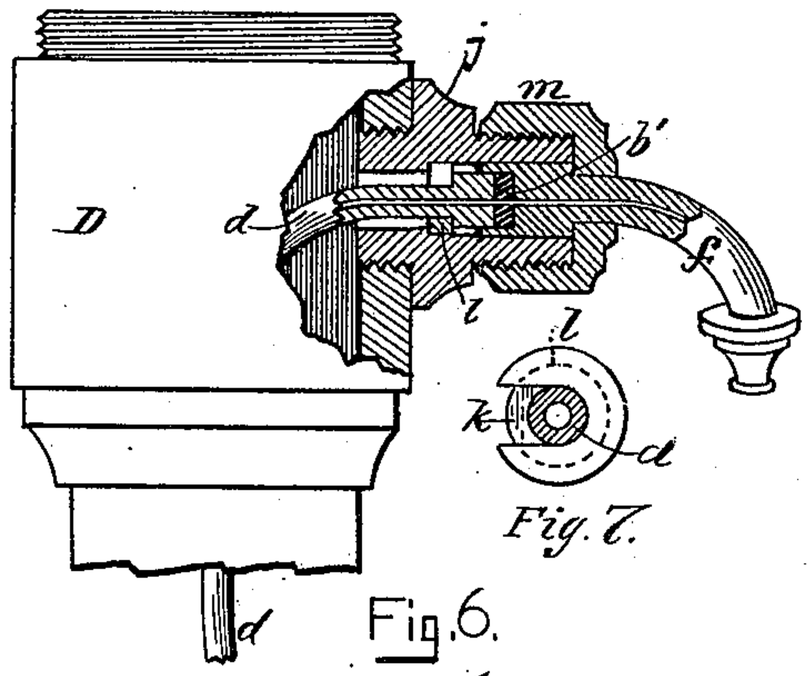

Fig. 7.

Fig. 6.

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UNITED STATES PATENT OFFICE.

WILLIAM P. CLARK, OF MEDFORD, MASSACHUSETTS.

SODA-WATER-DISPENSING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 251,412, dated December 27, 1881.

Application filed September 10, 1881. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM P. CLARK, of Medford, State of Massachusetts, have invented an Improvement in Soda-Water-Dispensing Apparatus, of which the following is a specification.

The object of my invention is to effect certain improvements in that class of soda-dispensing apparatus which is of an ornamental character, and which is intended to be mounted upon a counter or other support when used; and the invention will, in connection with the annexed drawings, be hereinafter fully described, and specifically defined in the appended claims.

Figure 1 is a front elevation of my improved apparatus as assembled and ready to be placed in position for use. Fig. 2 is a side elevation of the apparatus, taken as viewed from the left in Fig. 1. Fig. 3 is a top or plan view of the apparatus as shown with the elevated tablet and its superstructure removed. Fig. 4 is a detached sectional elevation, showing one of the draft-cocks in elevation and one in longitudinal vertical section, and one of the ornamental conduit-supporting pillars partly in vertical section and partly in elevation, and with the conduit-tubes therein shown in elevation, the base partly broken away, and the lower part of the conduit-pipes being shown in elevation. Fig. 5 is a detached vertical section taken through the central portion of the elevated tablet, and through the axis of the fountain-nozzle, and through the axis of the fountain-discharge conduit. Fig. 6 is a detached sectional elevation, showing the upper portion of one of the ornamental conduit-supporting pillars and the method of uniting the conduit tube and nozzle with each other and with said pillar.

In said views, A A represent the draft-cock bases, which are united by the bridge B, on which is seated the tumbler-rest C, all of which parts are preferably formed of marble and with the desired degree of ornamentation. In each of said bases four draft-cocks, *b*, are shown; but any desired number of such cocks may be arranged therein, according to the size of the apparatus; and while any of the various kinds of draft-cocks may be used in this apparatus, yet I prefer the kind shown in the drawings, which is similar to that shown, described, and claimed in Letters Patent issued to me on the 29th day of December, 1879, but with an improvement for which an application is now pending.

The draft-cocks as here shown are briefly described as follows: *a*, Figs. 1, 2, and 4, represents the inlet conduits or shanks, to which the supply-pipes of the portable fountain are coupled in the usual manner. Said conduits *a* lead up through base A, and are united with the draft-cocks *b* coincidently with a small passage, (shown by dotted lines in Fig. 4,) which communicates with a chamber formed by an annular groove in the valve-stem, as shown in said Fig. 4. From said chamber in the draft-cock the liquid descends through conduits *c*, Fig. 1, to which the tubes *d* are coupled, which latter tubes lead up through the ornamental standards D, as shown in Figs. 3, 4, and to which tubes the draft-nozzles *f* are coupled, as will be described. Said draft-cocks *b* are so constructed and arranged that when the valve-levers *e* are vibrated in the proper direction the passages in the valve-face are brought into coincidence with the described inlet and outlet conduits, and the liquid will therefore enter the annular chamber in the valve through conduit *a*, and will thence descend through conduit *c*, from which it passes through tube *d* (which is coupled to *c*) up through standard D to the draft-nozzles *f*; but as any kind of draft-cocks may be employed for this purpose which are adapted to be arranged on said bases, and which will enable the attendant to regulate the flow of the liquid from the portable fountain to the nozzles, a more detailed description of the cocks themselves is not deemed necessary, except, perhaps, to state that the valves and the conduits in the draft-cocks are so arranged that when the flow of the liquid is shut off in the several tubes then the valve-levers *e* will be in the relative positions shown in Figs. 2, 3, whereby either of the outer levers may be swung toward the center or either of the inner levers may be swung outwardly without interfering with the lever next adjacent to it; and as such levers must respectively be moved in the directions stated

in order to open the valve to which they are attached, therefore either valve may be opened without disturbance of the adjacent ones.

In Fig. 3 the right-hand pillar, D, is shown in transverse section in order to show the conduit-pipes *d*, that lead from the draft-cock, as explained; and the draft-nozzles *f*, which are secured in the standards and are coupled to the tubes *d*, are shown in said Fig. 3 as arranged at their outer or delivery ends upon the arc of a circle whose radius is equal to that of the drainage-tumbler rest C at the inner face of the raised inclosing rim *h*, Fig. 3, so that when tumbler *g* is placed against said rim, below either of said nozzles, the liquid discharged therefrom will be received in said tumbler, the rim *h* thus serving as a guide or gage to aid in adjusting the tumbler in position. Said tumbler-rest C is shown in Fig. 3 with perforations *i* for drainage thereof, a catch-basin and delivery-conduit being arranged beneath the same to receive the liquid escaping through said passages *i*; and to the shank *c'*, Fig. 1, of said basin a pipe may be coupled to carry off such drainage.

In Fig. 6 a shank, *j*, is shown as threaded in standard D, and through said shank is an axial passage of two different diameters, the inner portion being just sufficient to admit the enlarged head *k* of tube *d*, (see Figs. 6, 7,) and the larger section of such passage being of a size to receive the U-shaped pipe-collar *l* and the enlarged head of nozzle *f*. The small pipe *d* is pushed up the standard D and out through shank *j*, so that collar *l* may be placed thereon behind head *k*, when the tube is drawn back into position in the shank, and the nozzle is then seated in the shank, with a perforated elastic packing, *b'*, housed in its chamber, to form contact with head *k*, when the clamping-nut *m* is screwed upon the outer end of the shank *j* to secure the several parts in place. By means of the described shank *j*, the headed tube *d* and nozzle *f*, the open collar *l*, and the clamping-nut *m*, very small and frail pipes are coupled with great facility.

An ornamental marble tablet, E, is mounted upon pillars D, and is thereto secured by ornamental cap-nuts *w*, as shown in Figs. 1, 2, and 3. To the under side of said tablet is secured a metallic plate, *u*, which is united with and supports the suspended draft-cock *n*, whose delivery-nozzle *t* is arranged centrally in relation to tumbler-rest C and the radial nozzles *f*, as shown in Fig. 1, said cock *n* being supplied by the pipe *v*, Fig. 3, which passes through one of the pillars D and enters tube *n* through support *o*, Fig. 2, said draft-cock being provided with the usual name-tablet, *p*, and operated by the valve-lever *s*. A metallic basin or base, F, is seated centrally on tablet E, it being secured in place by cap-nuts *w*, and serves as the catch-basin of the fountain-glass G, which is seated in said basin F. A nozzle, *x*, Figs. 1 and 5, delivers a jet of water within said glass, the same being supplied through pipe *y*, Figs. 3 and 5, which is inclosed in a pillar, D and, like pipe *v*, is concealed within a groove in the under side of tablet E.

For the purpose of carrying off the waste water from within glass G the following devices are employed: A drainage-cup, *z*, Figs. 3, 5, is fitted in tablet E, and provided with a waste-pipe, 2, which passes down through one of the pillars D. A concentric rim or flange, 4, Fig. 5, is formed on bottom 3 of base F, with an external and internal shoulder, and between said external shoulder and the rim or lip of cup *z* the packing 5 is seated; and the screw 6, which is threaded in the central boss of cup *z*, is formed with a perforated flange, which seats upon the internal shoulder of rim 4. Therefore when cup *z* is forced up against packing 5 by screw 6 the waste water can escape through the holes in the flange of said screw, and thence through pipe 2, while the joint between said cup and rim is water tight. Said drainage device is shown as in Fig. 5 and is so described for the purpose of presenting some means of discharging the water that is delivered within the fountain-glass, and not for the purpose of claiming the same in this application. Two ornamental pillars, *a'*, are secured at their base to the projecting portion of the bottom 3 of base F, and at their upper ends they are secured by ornamental cap-nuts in the monumental table H, as shown in Figs. 1, 2. By thus arranging said pillars with an upper tablet the fountain-glass G is protected from injury and an ornamental finish and completeness are imparted to the apparatus.

When this apparatus is arranged in relation to the attendant as shown in Fig. 1, the draft-cocks in either base are equally convenient to him; but when two attendants are employed at the same fountain it will be in the position shown in Fig. 2, in order that each attendant may have the cocks in one of the bases directly facing him.

With the inlet and outlet conduits *a c* and their connecting-pipes sunk below the counter, so that bases A and bridge B rest thereon, this apparatus presents a neat, comely appearance. It but slightly obstructs the range of vision, and by the arrangement of the draft cocks and nozzles and the tumbler-rest great compactness, convenience, and facility for serving customers are attained.

I claim as my invention—

1. In combination, the bases A A, with draft-cocks and supply-conduits therein arranged, the bridge B, uniting said bases, and the tumbler-rest arranged upon said bridge, substantially as specified.

2. The combination of the draft-cock bases, the ornamental pillars D, the elevated tablet E, the inflow and outflow pipes concealed in said bases, pillars, and tablet, and the draft-nozzles secured in and radiating from said pillars, substantially as specified.

3. The combination of two sets of draft-cocks, arranged upon and to be operated from

opposite sides of the apparatus, and two sets of inwardly-directed draft-nozzles, arranged to deliver the liquid toward a common center, or between said sets of draft-tubes, substantially as specified.

4. The combination of two sets of draft-cocks, arranged upon and to be operated from opposite sides of the apparatus, two sets of inwardly-directed draft-nozzles, arranged to deliver the liquid toward a common center, or between said two sets of draft cocks, and a tumbler-rest, constructed and arranged to sustain the tumbler when placed beneath either of said nozzles, substantially as specified.

5. The combination of an ornamental pillar, with conduit-pipes therein concealed, an ornamental base of such pillar, with draft-cocks therein secured and arranged to coact with said pipes, and a corresponding series of nozzles secured in and radiating from such pillar and arranged to deliver the liquid flowing through said cocks and pipes, substantially as specified.

6. In a soda-water-dispensing apparatus, the combination of an ornamental pillar having a series of draft-nozzles secured in and radiating therefrom with a corresponding series of conduit-tubes concealed in said pillar and arranged to coact with said nozzles, substantially as specified.

7. In combination with tumbler-rest C and elevated tablet E, the self-contained draft-cock *n*, suspended beneath said tablet and arranged to deliver its liquid in the tumbler when seated in said rest, substantially as specified.

8. In combination with tablet E, its supporting-pillars D, and the delivery-nozzles *f*, secured in and radiating from said pillars, the draft-cock *n*, suspended beneath said tablet and connected with a supply-pipe concealed in such pillar, substantially as specified.

9. In combination, tube *d*, with its head *k*, the open or U-shaped collar *l*, the draft-nozzle *f*, with its enlarged recessed head, the packing *b'* seated therein, and devices for securing said parts together, substantially as specified.

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Witnesses:
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S. T. THOMAS.