

(No Model.)

2 Sheets—Sheet 1.

J. BRAUN.
AIR COMPRESSOR BEER PUMP.

No. 515,740.

Patented Mar. 6, 1894.

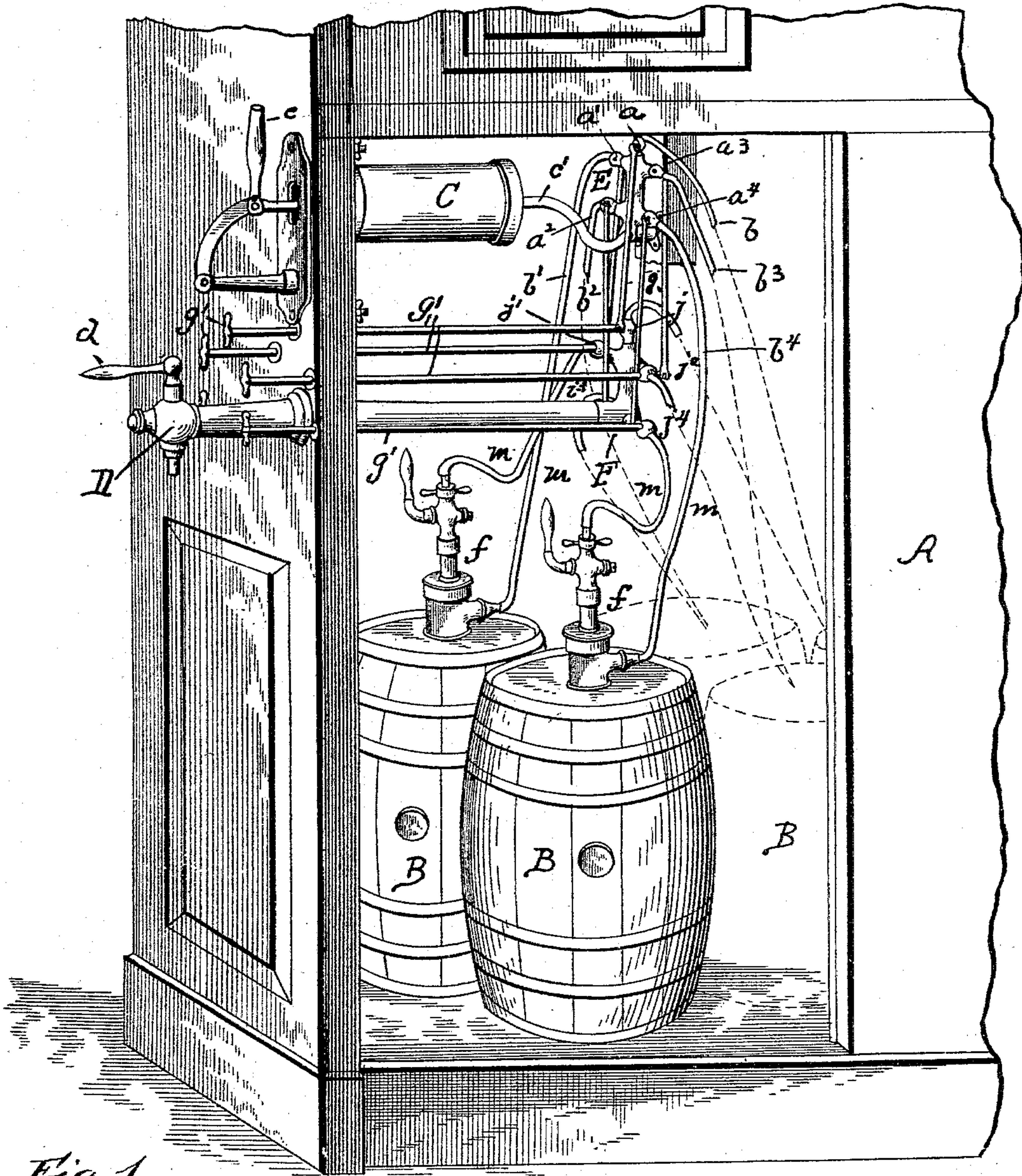


Fig. 1.

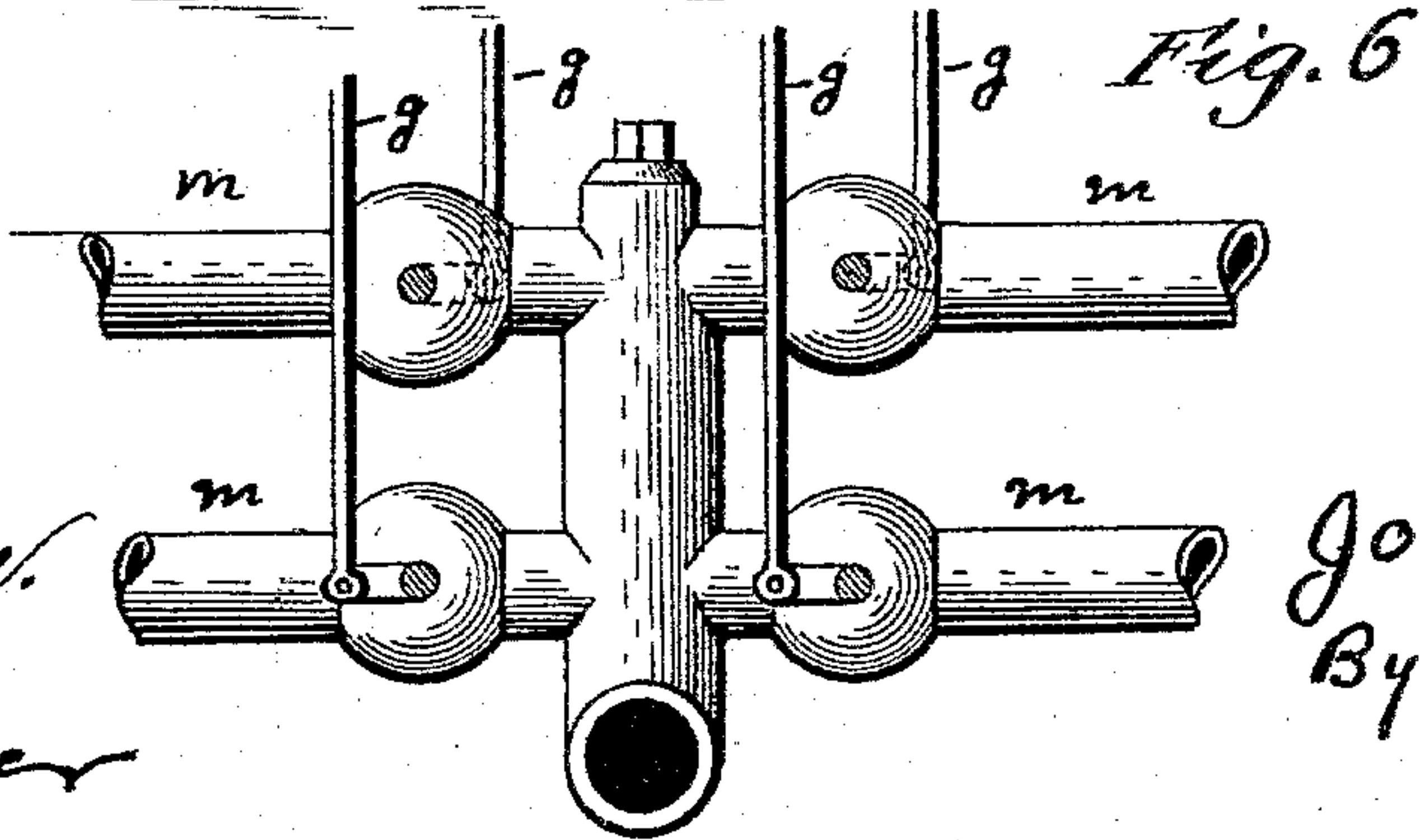


Fig. 6

Witnesses:

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Attorney

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2 Sheets—Sheet 2.

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Fig. 2.

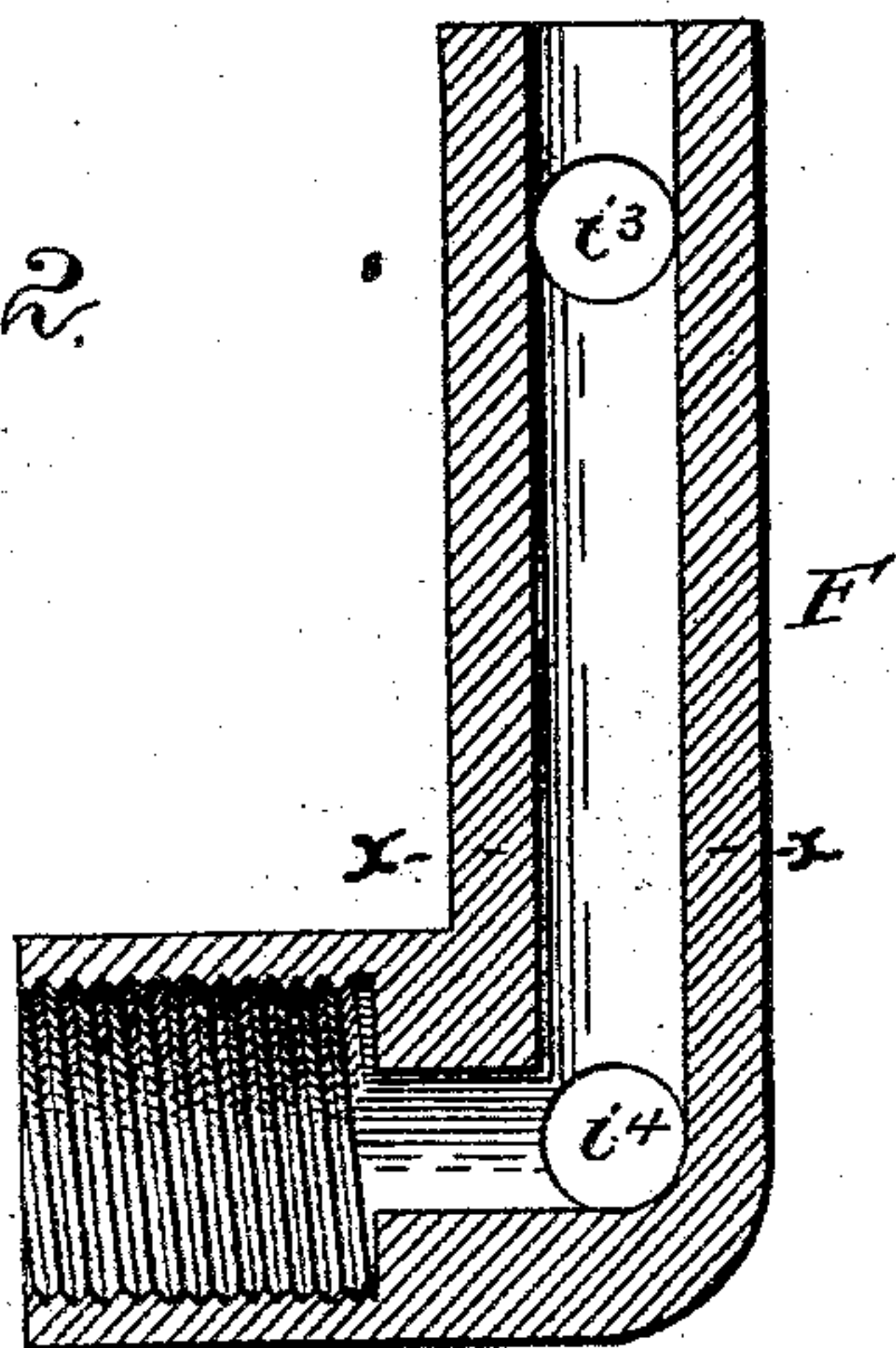


Fig. 3.

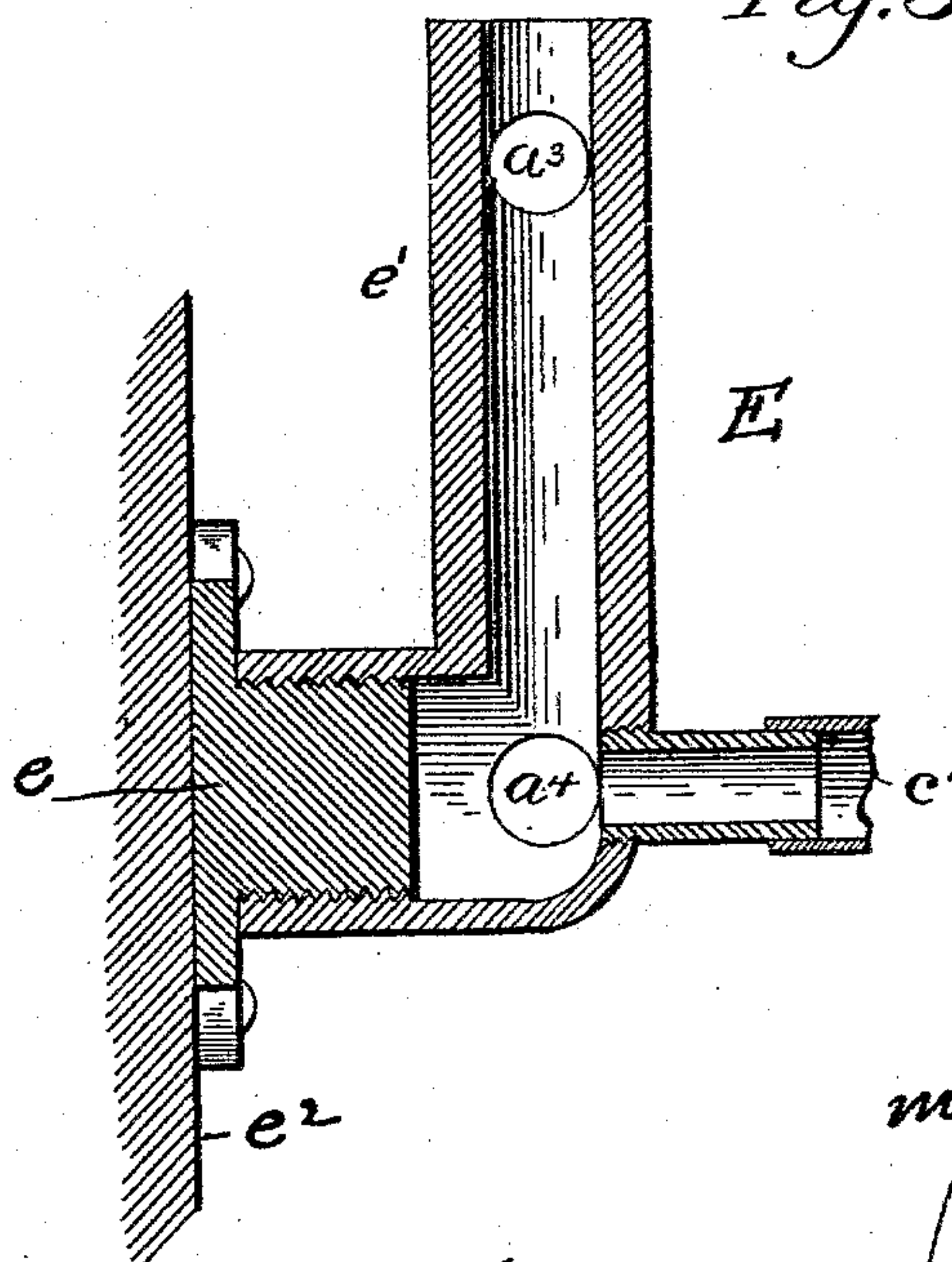


Fig. 5.

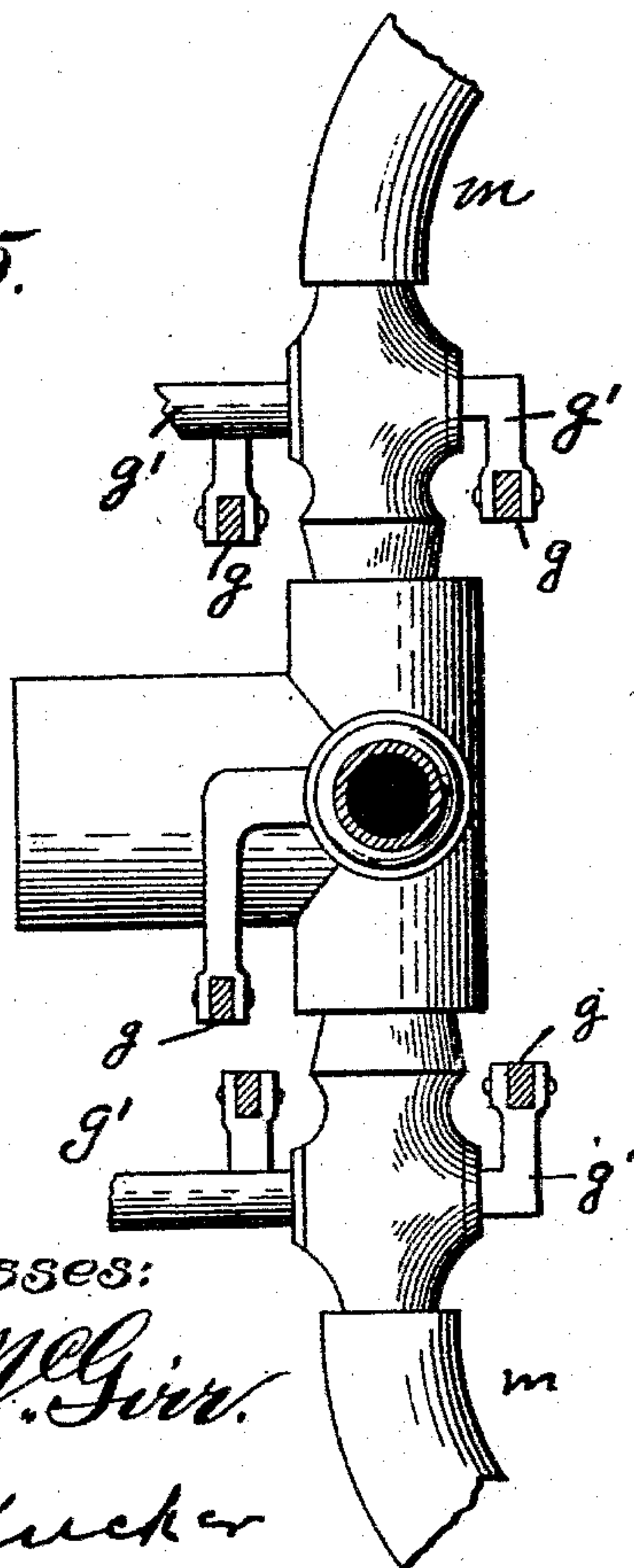
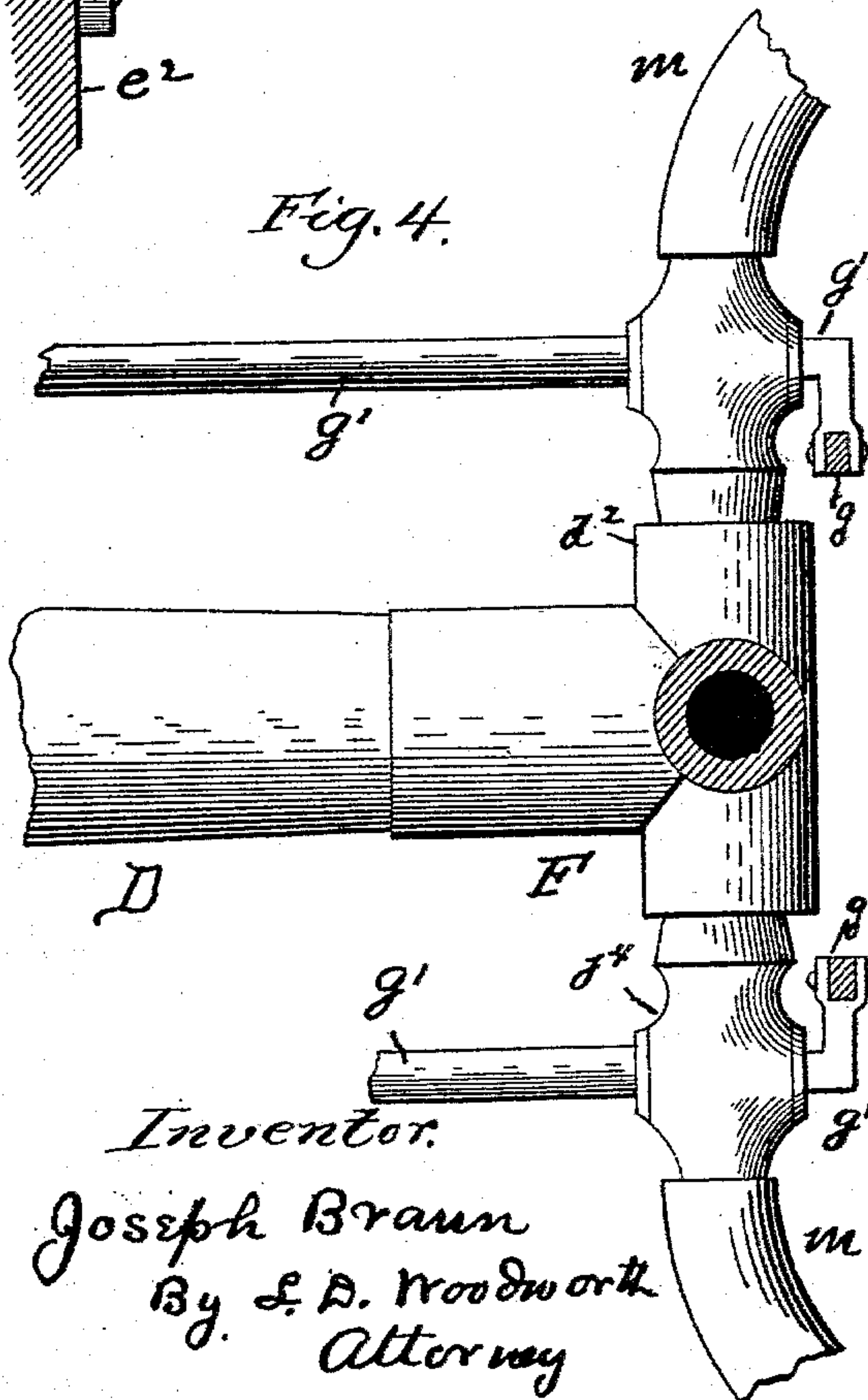


Fig. 4.



Witnesses:

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UNITED STATES PATENT OFFICE.

JOSEPH BRAUN, OF YOUNGSTOWN, OHIO.

AIR-COMPRESSOR BEER-PUMP.

SPECIFICATION forming part of Letters Patent No. 515,740, dated March 6, 1894.

Application filed October 6, 1892. Serial No. 448,052. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH BRAUN, a citizen of the United States, residing at Youngstown, in the county of Mahoning and State of Ohio, have invented certain new and useful Improvements in Air-Compressor Beer-Pumps; and I do hereby declare the following to be a full, clear, and exact description of my 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, which form part of this specification.

My invention relates to that class of air compressor beer pumps that are applied in more than a single tap, and its object is a new and more conveniently operated means for a manifold tap, by which liquids from as many different casks as may be desired are drawn separately through a single-way faucet, and also by which (a double use of the same means co-operating) air under pressure is injected, by a single air pump, into any one of the several casks, either simultaneously with draft therefrom, or when the faucet is not in use, as is required, thus remedying serious defects in such pumps, as will appear in this specification.

In the accompanying drawings representing my means for the object stated Figure 1 is a perspective view of my invention in its several parts, applied as in use. Fig. 2 is a longitudinal section view of the manifold faucet connector F. Fig. 3 is a view of the manifold air pump connector E and attachments. Fig. 4 is a transverse section view of the manifold faucet connector F on the line $x x$ of Fig. 2. Fig. 5 is a transverse section view of the same upon the horizontal line of the extreme top of the beer cock j therein, cutting the connecting rods; and Fig. 6 is a side view of the same below the beer cock j .

Similar letters refer to similar parts in all views.

To construct my invention I provide an ice-box A in which is placed the several casks of beer, ale, and other liquids to be served therefrom. To the central portion of the inner side of the front wall of the box, at a suitable elevation, I attach, horizontally and rigidly, the common cylinder air pump C, which is operated from the outer side of the box by its handle

c , and which has connections by means of the pipe c' with the part E, that resembles somewhat a five-way cock, but which I term a manifold air pump connector. The manifold air pump connector E is similar in all respects to the manifold faucet connector F, except that the former has the part e for a seat, the difference in function being that one is for the ingress of air, under pressure, into the cocks by means of the air cocks $a a' a^2 a^3$, each as desired, while the other is for the flow of liquids from the casks by similar means. The part e of the air pump manifold E is a flat casting perforated for attachment by screws to the inner side of that rear wall of the ice-box, or to a stanchion provided for that purpose, as shown at Fig. 1 of the drawings, and carrying at its central portion a round threaded projection to enter the interiorly threaded opening in the horizontal portion of the part E, which is thus supported, as seen at Fig. 3.

The description of the faucet manifold F, now to be given, will be a sufficient description, likewise, of the remainder of the air pump manifold E. Below the air pump C, and in similar position, I place the common beer faucet D, which, at its rear or inner end, has screw connection with the lower horizontal portion of its manifold F. The faucet manifold F is a hollow casting of suitable length and breadth, preferably cylindrical, having proper openings for the beer cocks and bent to the horizontal at the lower end to receive the end of the faucet D. At its upper end it carries the beer cock j and upon two opposite sides, aligned one above the other, the similar beer cocks $j' j^2 j^3 j^4$, which, in order to be actuated by the arms g' , are at right angles with the faucet D. These beer cocks are the common rotary valve cocks suitably threaded at both ends for connections, and are each provided with a suitable crank at the end of the valve stem, the cranks appearing upon different horizontal planes being upon different sides of the cocks, so that the rods g that connect the two manifolds may not interfere with each other. Between the cranks of the corresponding cocks of the two manifolds E and F are the rods g pivotally connected to each, so that the movement of one correspondingly actuates the other. From the valve stems of the beer cocks, and made

rigid therewith, there extends outward through the walls of the ice-box the arms *g'* terminating in suitable handles. From the several cocks the similar flexible pipes *m* extend to the casks into which they are connected by the usual means of the valve plug *f*. The similar pipes *b b' b² b³ b⁴* similarly connect the casks *B* and the cocks *a*, &c., of the air pump manifold.

10 The mechanism and operation of my invention will now be understood. As the faucet *D* is supposed to be opened at all times, except when necessary to use the air pump without drawing from the casks, the attendant has but to turn the handle of the proper arm *g'*, which is suitably marked to indicate which cask to which it gives connection, opening simultaneously corresponding cocks in the faucet and air pump manifolds, and at the same time he may, if more air pressure is needed, move the handle of the pump. He is required at no time to open the ice-box to open or close valves, thereby permitting the escape of cold and permitting the entry of warm air, and he readily detaches the parts when necessary for cleaning.

It will be readily comprehended that the taps may be increased to any number desired by lengthening the manifolds and adding cocks, a greater length of branch being required to those higher up, if more than shown are added, so that no obstacle shall appear in the way of the vertical arms *g*. If a less number than above described is required the cocks are taken off, and the apertures in the manifolds closed by a threaded pin.

Of course it must be understood that I do not limit myself to the precise construction herein shown and described, as those skilled in the art to which it appertains can arrange the parts differently, and vary their forms, without departing from the spirit and scope of my invention.

While I have illustrated and described my invention as applied in an ice-box built upon the level of the room in which the liquids are drawn, yet it may be applied with the same results and without further invention, where the casks are placed beneath the counter, or in a cellar, as will be readily comprehended.

I am aware that double tap air compressor beer pumps are made, but I am not aware that an air compressor beer pump having my faucet and air pump manifolds as above described, its connecting rods *g*, and the arms *g'* was ever known until my invention thereof.

What I claim is—

1. In a dispensing apparatus for beer and other beverages, the combination of an air

pump, a cock having connection with the said air pump and with the vessel from which the beverage is to be drawn by suitable pipes, a faucet, a second cock having communication with the said faucet, and with the said vessel, a hand operated arm or rod attached to one of the said cocks for operating it, and a rod and cranks connecting the said hand operated cock with the other cock whereby both are simultaneously actuated to establish communication between the said air pump and faucet, and the said vessel, substantially as described.

2. In a dispensing apparatus for beer and other beverages, the combination of an air pump, a manifold connected with the said air pump and having a series of independent cocks, each adapted to have connection with a vessel from which the beverage is to be drawn, a faucet, a manifold connected with the said faucet and having a series of cocks which are constructed to have connection with the same vessels as corresponding cocks of the air pump manifold, hand operated rods connected with the cocks of one manifold, and connections between corresponding cocks of the two manifolds whereby on operating any one of the said rods corresponding cocks of the two manifolds will be actuated, and establish communication between the said air pump, faucet, and the required vessel whereby the desired beverage is drawn, substantially as set forth.

3. The herein shown and described means for dispensing one of a number of beverages through a single faucet, consisting of an air pump, a manifold *E* having connection with the said air pump and provided with a series of cocks, a single faucet, a manifold *F* attached to the said faucet and provided with a number of cocks corresponding to those on the manifold *E*, hand operated rods connected with the cocks of the manifold *F*, rods and cranks connecting corresponding cocks on the said manifolds *E* and *F* to actuate the two simultaneously, and pipes connecting the cocks of the respective manifolds with the vessels containing the beverages so that on opening any cock communication will be had between the air pump, faucet, the two manifolds, and the vessel containing the beverage desired to be drawn.

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

JOSEPH BRAUN.

Witnesses:

J. T. SMITH,

G. W. TUCKER.