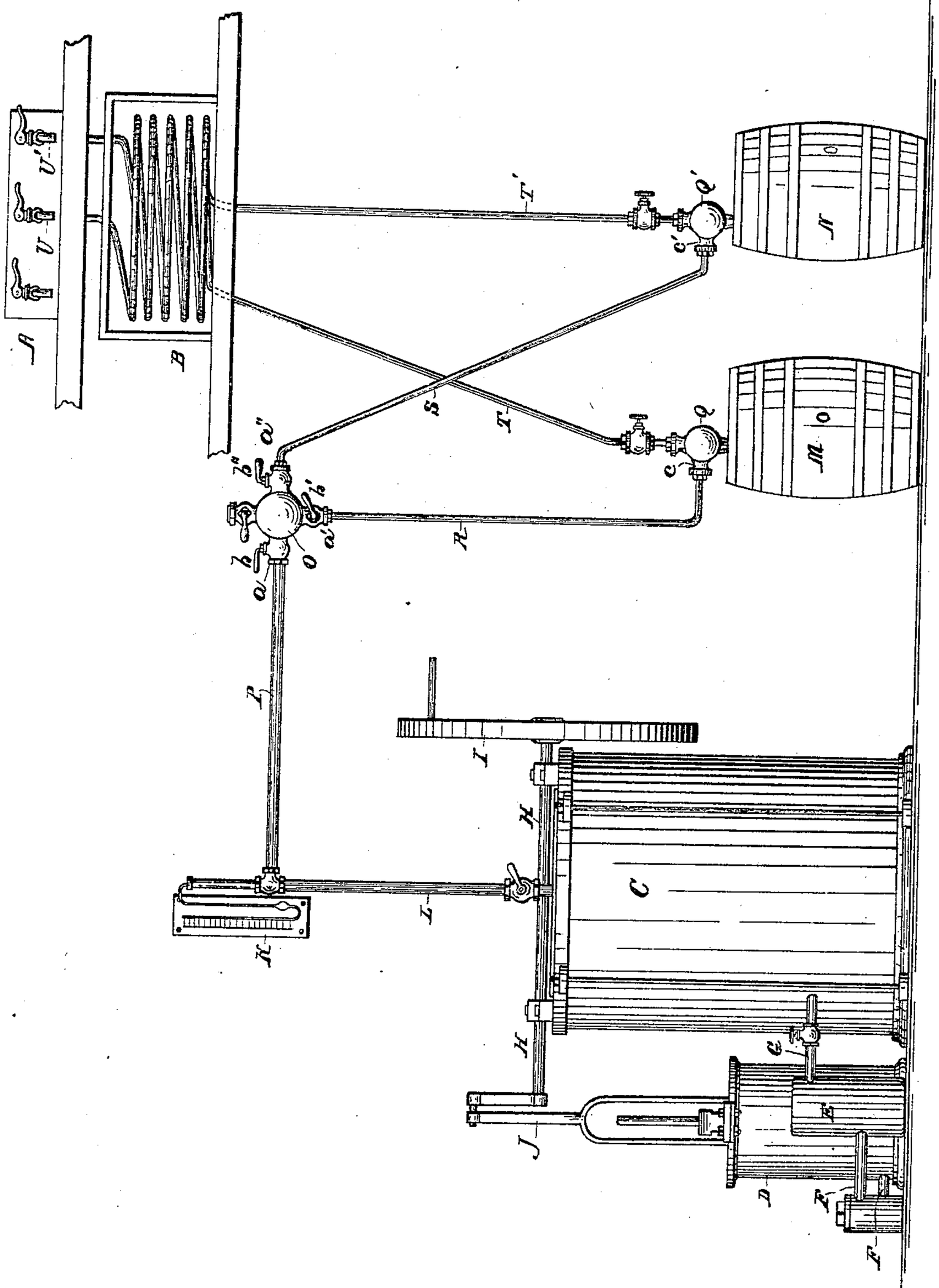
(No Model.)

E. SCHARFENBERG.

BEER PUMP AND PRESERVER.

No. 271,659. Patented Feb. 6, 1883.



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UNITED STATES PATENT OFFICE.

EDUARD SCHARFENBERG, OF STREATOR, ILLINOIS.

BEER PUMP AND PRESERVER.

SPECIFICATION forming part of Letters Patent No. 271,659, dated February 6, 1883.

Application filed April 28, 1882. (No model.)

To all whom it may concern:

Be it known that I, EDUARD SCHARFENBERG, of Streator, in the county of La Salle and State of Illinois, have invented certain new and useful Improvements in Beer Pumps and Preservers, of which the following, in connection with the accompanying drawing, is a specification.

In the drawing the figure shown represents a plan in elevation of a beer-pump embodying my invention.

A represents a counter or bar, below which is an ice box or chest, B.

C is an air-reservoir, and D is an air-pump.

E is a carbonic-acid-gas generator.

F is a pipe connecting the air-pump with the said generator, and G is a pipe connecting the generator with the reservoir C. The pipe or tube F extends from the lower part of the air-pump into the lower part of the generator, and the pipe G extends from the upper part of the generator into the reservoir C. This air-pump may be operated in any suitable way—for example, by means of the crank-shaft H turning in bearings on the reservoir, and provided with a drive-wheel, I, and connected to a pitman, J, for operating the piston of the air-pump, as shown. An ordinary vibrating hand-lever jointed to the piston-rod of the air-pump may be employed for the same purpose.

K is a manometer connected to the reservoir C by means of a pipe or tube, L.

M and N are kegs containing beer.

O is a hollow bulb, projecting from which are a number of tubular extensions, *a*, *a'*, and *a''*, in which are cocks *b*, *b'*, and *b''*. This device may be termed a "compound" or "multiple" faucet, and is fixed to the wall or other suitable support, and arranged near the air-pump and the kegs M N.

P is a pipe entering the extension *a* and the tube L.

Q Q' are two-way plugs entering the kegs M and N, respectively. One of the tubular portions of these plugs is intended to extend to or nearly to the bottom of the keg it enters, while the other tubular portion terminates within the keg near the top thereof.

R is a tube connecting the extension *a'* to the air-duct of the plug Q, and S is a pipe connecting the extension *a''* with the air-duct of the plug Q'.

T is a tin tube or pipe extending from the top of the plug Q through the ice-box, wherein it may be coiled, and thence to the tap or faucet U, from which the beer is to be drawn from the keg M.

T' is the tin pipe extending from the top of the plug Q' into the ice-box, where it may be coiled, and thence to the tap or faucet U', from which beer is to be drawn from the keg N.

In the tops of the plugs Q and Q' are cocks, which may be employed to regulate the flow of beer through the pipes T and T'. In the plugs Q and Q', and near the points of entrance of the tubes R and S, as at *c c'*, may be located self-regulating valves, for the purpose hereinafter referred to.

I have not here described with particularity the construction and operation of either the air-pump, the generator E, the air-reservoir C, the manometer, the compound cock O, the plugs Q Q' and their valves, or the ice box or chest, as the construction and operation of each of these parts, *per se*, is well known and understood, and as my invention does not refer to details of construction relating to those parts, but more especially to the combination hereinafter set forth. It is to be understood that the generator E is to be supplied with any well-known substance or mixture which will generate or supply even a small amount of carbonic-acid gas, and that a current of fresh air is passed through the generator from time to time.

It will be perceived from the foregoing description, and from reference to the drawing, that the operation of the apparatus is as follows, the reservoir C being first filled with air under pressure by means of the air-pump. If the tap or faucet U, for example, be opened, the beer in the keg M will rise through the beer-duct in the plug Q and pass out through the pipe T to and out of the said tap or faucet, and be cooled by its passage through the ice-box. The air from the reservoir will pass out through the tubes L, P, and R into and through plug Q, from which it will escape into the top of the keg M, thus making in the said keg an

air cushion or pressure, which will force therefrom more beer when the tap is again opened. This air will be impregnated with carbonic-acid gas, which will supply the place of the gases escaping from the beer, it being remembered that the air from the air-pump passes through the generator E, before entering the reservoir C. The like result will follow with reference to the beer in the keg N if the tap or faucet U′ be opened.

The duplication of parts necessary to connect my apparatus with two or more kegs of beer is not an essential feature of my invention.

The self-regulating air-valves in the plugs Q and Q′ will permit a less degree of air-pressure in the kegs than in the reservoir C, as the valves themselves will resist a part of the pressure of the air in the said reservoir, and that resistance may be either diminished or increased in any suitable way known for accomplishing that result. As before stated, I have neither shown nor described the said valves in detail, as their construction and operation are well known. The air-pressure causes a free and uniform flow, and the carbonic-acid gas keeps the beer pure and palatable until the keg is exhausted.

I am aware that a device similar to mine for drawing beverages by the use of carbonic-acid gas has been devised, and I lay no broad claim thereto.

What I claim is—

The pump D, generator E, reservoir C, multiple cock O, plug Q, having two ways for leading into a keg, in combination with the connecting-pipes F, G, L, P, R, and T, all constructed and arranged as set forth.

EDUARD SCHARFENBERG.

Witnesses:
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