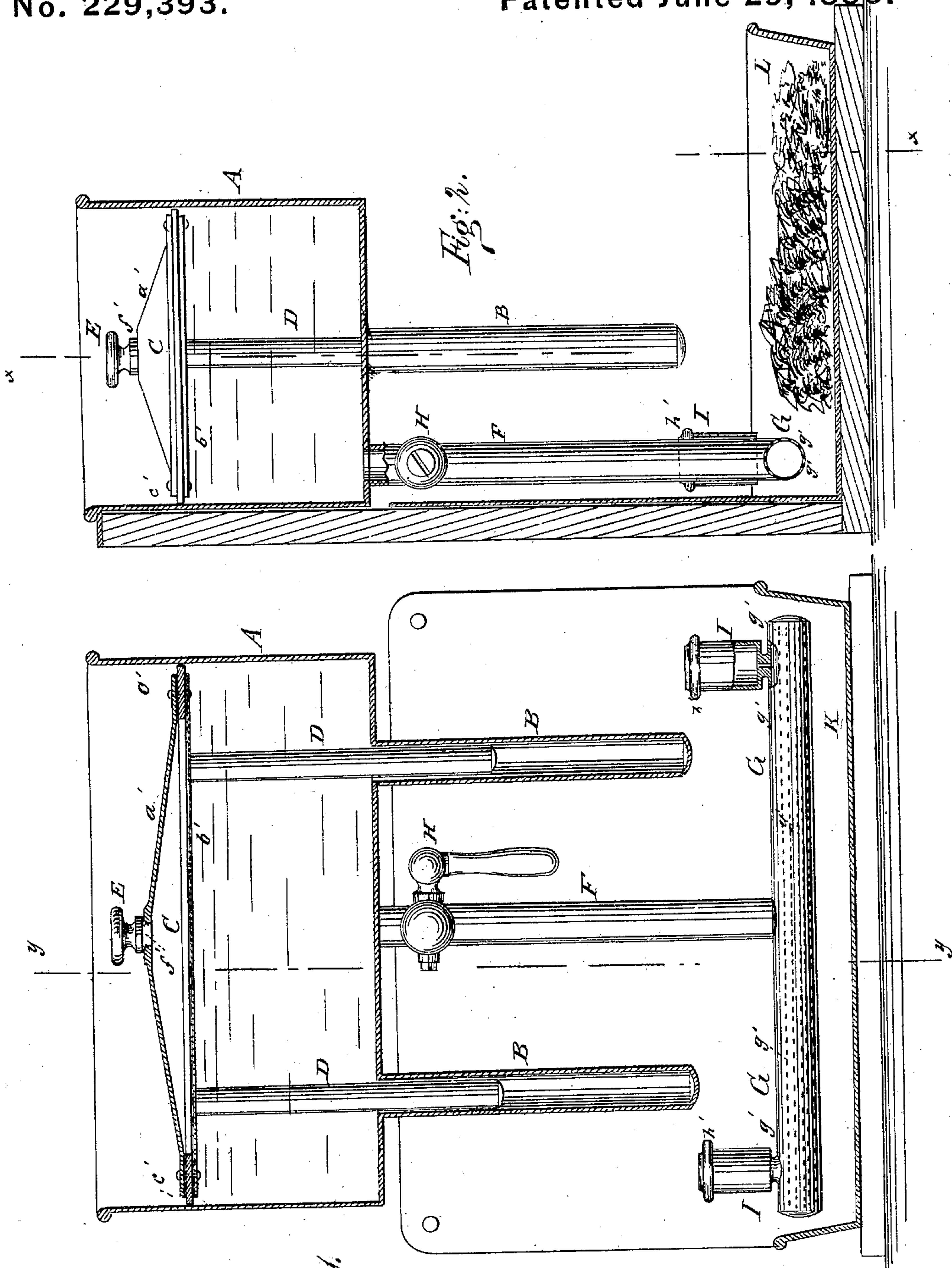


H. R. FOWLER.
Apparatus for Medicating Air.

No. 229,393.

Patented June 29, 1880.



WITNESSES:

Chas. N. A. A.
C. Sedgwick

Fig. 1.

INVENTOR:

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UNITED STATES PATENT OFFICE.

HENRY R. FOWLER, OF LEADVILLE, COLORADO.

APPARATUS FOR MEDICATING AIR.

SPECIFICATION forming part of Letters Patent No. 229,393, dated June 29, 1880.

Application filed October 3, 1879.

To all whom it may concern:

Be it known that I, HENRY R. FOWLER, of Leadville, in the county of Lake and State of Colorado, have invented a new and Improved Vaporizer, of which the following is a specification.

Figure 1 is an elevation of the device on line *x x*, Fig. 2. Fig. 2 is an elevation on line *y y*, Fig. 1.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish, for the benefit of invalids, an apparatus by means of which, with the aid of water and certain chemicals, the dry air of high altitudes may be made to resemble the moist air of low altitudes.

In the drawings, A represents the tank, from the bottom of which the two tubes B B, that are closed at their lower ends, extend perpendicularly down.

C is the hollow cover of the tank A, made of two plates of metal, *a'* and *b'*, bolted or otherwise fastened together at their edges, and holding between their edges a strip of rubber, *c'*, or other elastic substance, that projects somewhat and makes a close joint between the cover C and the tank A.

Secured to the under side of the cover C are two rods, D D, that project downward into the tubes B B, and serve as guides to keep the cover C on a level as it moves downward.

E is the removable handle of the cover C, that may be removed from over the aperture *f'*, so that shot or other heavy material may be introduced through the aperture in the cover C to give it added weight.

F is the vertical tube for conducting the contents of the tank A into the horizontal perforated pipe G, that is provided with perforations *g' g'*. The pipe F is furnished with a cock, H, for regulating the flow of water through it.

I I are the cups, provided with cover *h'*, fixed on each end of the pipe F and connecting with its interior.

K is the pan set under and reaching in front of the pipe F, for the purpose of receiving the heavier portions of the spray ejected from the said pipe F; and L represents sponge or other absorbent substance for absorbing said spray or moisture.

The process consists in placing simple or medicated water in the tank; in then placing

the cover in position, weighted, if desirable, so that it may press upon the surface of the liquid in the tank; then the cock H is opened, or partly opened, and the liquid is forced by the weight of the cover down through the pipe F into the pipe G, and out through the perforations *g' g'* to moisten the atmosphere, and at the same time chemicals or drugs of any desired kind are dissolved and introduced into the water in pipe G through the cups I I, in order to impart to the atmosphere a more active medicinal effect. This part of the apparatus and this process are to be used and applied for the purpose of changing the character of the atmosphere of high altitudes to that of low altitudes.

The apparatus is designed to be used in private dwellings, hotels, and hospitals, for the benefit especially of those suffering from throat or lung diseases.

In times of slow traveling, invalids removing for their health from a locality of high altitude to one of low altitude, or vice versa, gradually effected the change and generally were benefitted thereby; but in these times of rapid traveling the change in such cases is usually so sudden and decided that the invalid is injured rather than benefited by it. It is for the benefit of such invalids that this apparatus and process are designed.

One going from the South to Colorado, for example, can on his arrival be at first treated with an atmosphere resembling that which he has just left, and gradually those peculiar characteristics of the atmosphere of his former home may be changed until he becomes accustomed to the pure and unadulterated air of the place to which he has resorted, when, becoming acclimated, his physical condition may be regarded as fully strengthened against a recurrence of his former illness.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The combination of tank A, tubes B B, hollow cover C, provided with elastic strips *c'* and handle E, rods D D, tube F, perforated pipe G, and cups I I with pan K and absorbent L, substantially as herein shown, and for the purpose described.

HENRY RYAN FOWLER.

Witnesses:

H. J. MATTHEWS,
A. M. LOOMIS.