C. E. WOLLE & S. MUNYON.

Apparatus for Carbureting Air.

No. 199,246. Patented Jan. 15, 1878.

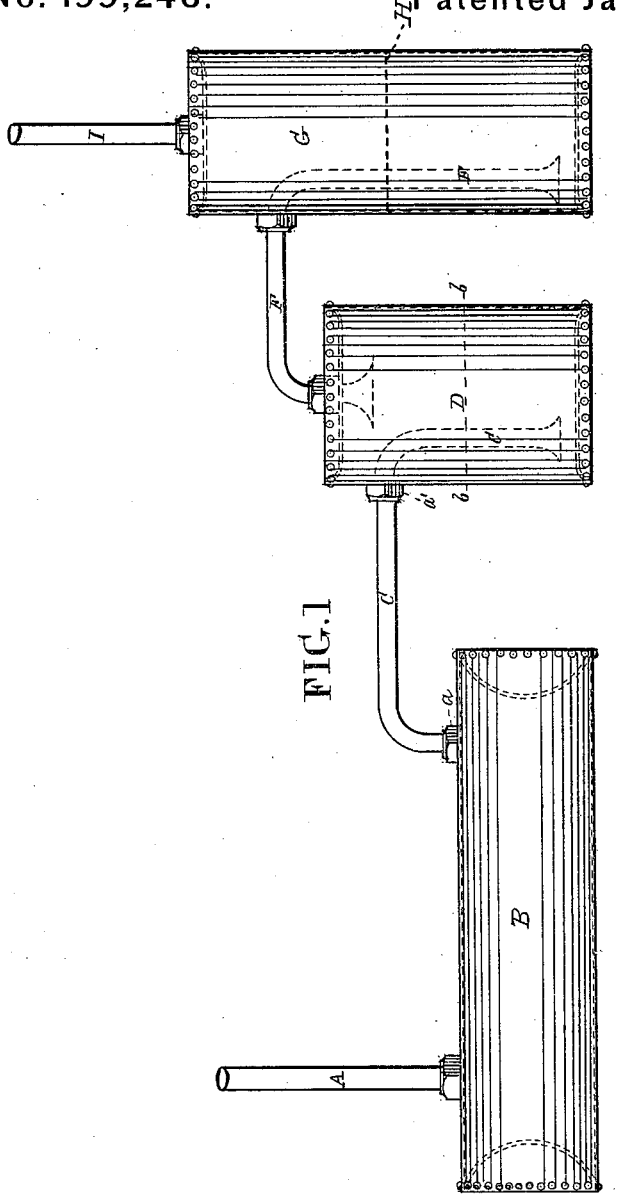

FIG. 1

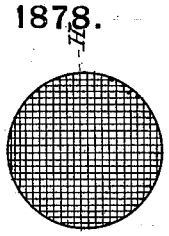

FIG. 2

Witnesses

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IMPROVEMENT IN APPARATUS FOR CARBURETING AIR.

Specification forming part of Letters Patent No. **199,246**, dated January 15, 1878; application filed December 14, 1875.

To all whom it may concern:

Be it known that we, CHARLES E. WOLLE and SAMUEL MUNYON, of the city and county of Philadelphia, in the State of Pennsylvania, have invented a new and useful Improvement in Apparatus for Carbureting Air, which improvement is fully set forth in the following specification, reference being had to the accompanying drawings.

Our invention relates to an air-vessel, carbureter, and purifier, having high-pressure seals, and being connected together by means of suitable pipes, the whole being constructed and arranged as hereinafter fully described.

In the accompanying drawings, Figure 1 is a side elevation of our improved apparatus for manufacturing illuminating-gas. Fig. 2 is a face view of the wire netting H.

A is a pipe, through which the compressed air is forced into the air-cylinder B. C is a siphon, the receiving end being connected with the upper side of said air-cylinder by means of the fitting *a*, and the middle part with the cylinder D by means of the fitting *a'*. Its discharging end is projected downward to near the bottom of the vessel, and is of funnel shape, as represented, for the purpose of spreading the compressed air, which passes from the cylinder B through the siphon, into the gasoline or other gaseous liquid, which fills the lower part of the vessel as high as the dotted line *b*.

As the air passes up through the liquid it is carbureted, and as it rises to the top of the vessel it is drawn by means of the siphon F, connected with the vessels D and G, as represented, into the vessel G, and discharged by its funnel-shaped mouth into the lower part of the vessel, which is filled with sponge and a solution of lime or potash, as far as the wire-netting H, which netting is shown detached in Fig. 2. The netting is for the purpose of confining the sponge in its place without obstructing the flow of the gas. The gas is purified as it passes up through the sponge, and fills the upper part of the vessel, above the netting H, whence it passes through the pipe I to the burners.

We claim as our invention—

A high-pressure apparatus for manufacturing illuminating-gas, having an air-vessel, B, filled with air under pressure, a carbureter, D, connected therewith by means of the pipe C, and having in its lower end gasoline or other gaseous liquid, and a purifier, G, connected with the carbureter by means of the pipe F, and having sponge or other porous material, and a solution of lime or potash, or purifying material, the vessels B, D, and G, having high-pressure seals, substantially in the manner and for the purpose set forth.

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