(No Model.)

G. M. VOLTZ.

RESERVOIR FOR OIL STOVES.

No. 389,425. Patented Sept. 11, 1888.

Fig. 1.

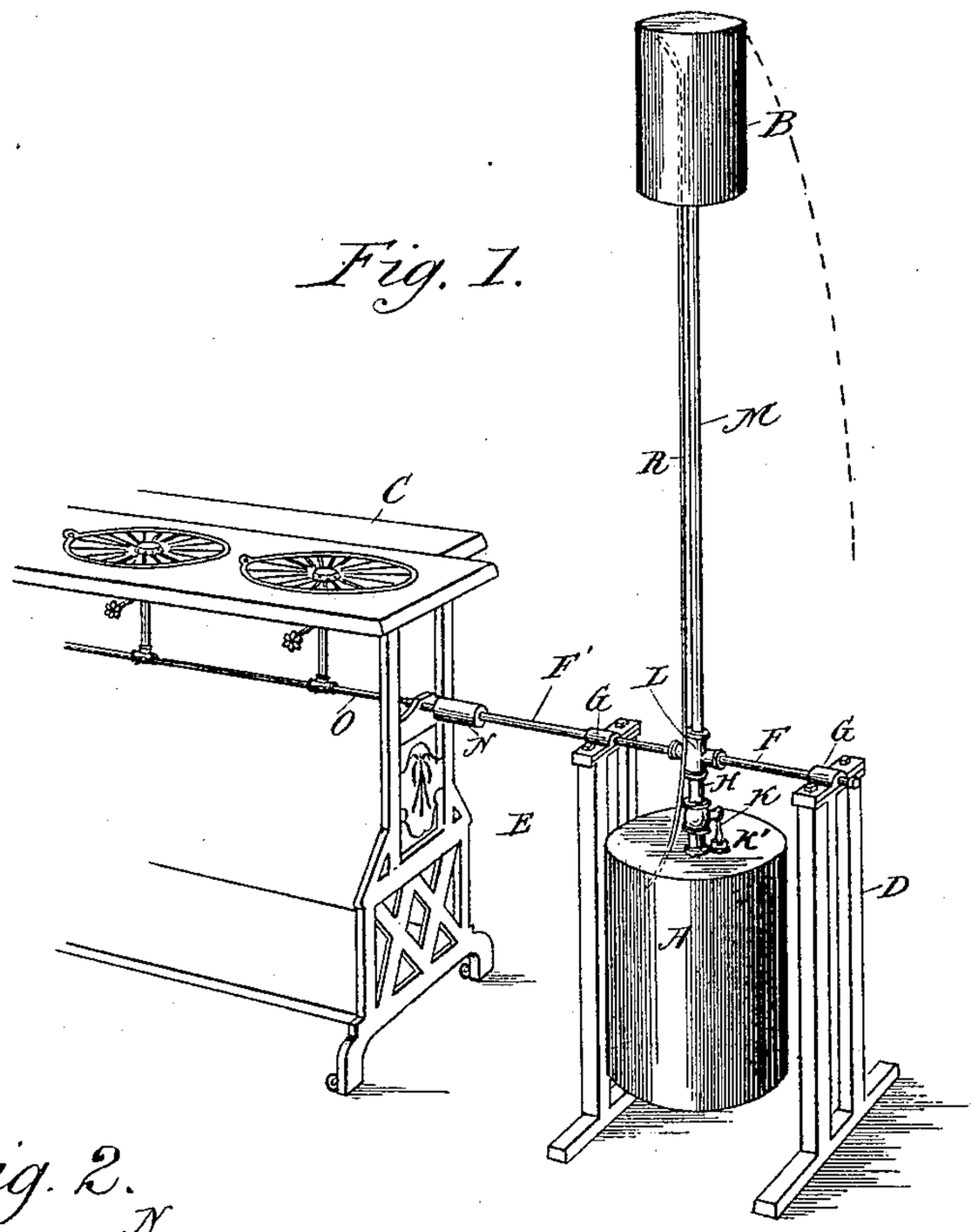
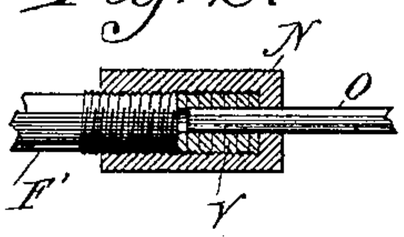


Fig. 2.



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UNITED STATES PATENT OFFICE.

GEORGE M. VOLTZ, OF ST. JOSEPH, MISSOURI, ASSIGNOR OF ONE-HALF TO THE ILLINOIS STREET GAS COMPANY, OF CHICAGO, ILLINOIS.

RESERVOIR FOR OIL-STOVES.

SPECIFICATION forming part of Letters Patent No. 389,425, dated September 11, 1888.

Application filed September 9, 1886. Serial No. 213,057. (No model.)

To all whom it may concern:

Be it known that I, GEORGE M. VOLTZ, residing at St. Joseph, in the county of Buchanan and State of Missouri, and a citizen of the United States, have invented new and useful Improvements in Reservoirs for Oil-Stoves, of which the following is a full description.

The objects of my invention are to produce a reservoir for stoves using liquid fuel, consisting of two parts—viz., a main reservoir holding a large supply of fuel and a tank holding only enough for, say, one day's supply, to avoid frequent filling—and to insure safety by so constructing the reservoir as to preclude the filling of either of the two parts without extinguishing the fire. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is an isometric view of my improved reservoir, Fig. 2 being a detail view of the pack-nut in section.

Referring to the drawings, in which similar letters refer to like parts, A is the reservoir; B, the tank; C, the stove, shown in part, and D and E trestles provided with the boxes G G, attached to their upper ends.

Extending upward from the top of the reservoir A, and connecting therewith, is the pipe H, provided with the stop-cock K, for regulating the flow of the fuel to the tank B. This stop-cock K is provided with a lever-handle adapted to engage a grooved cap, K′, in the top of the reservoir. The pipe H is also provided with the cross-T L, into which are connected the pipes F F′ and the pipe M, the latter passing upward through the bottom of the tank B, thereby connecting it with the reservoir A. Resting in the boxes G G, which are attached to the tops of the trestles D and E and permitted to turn therein, are the pipes F F′, connected with the cross-T L, as shown in Fig. 1. The other end of the pipe F′ enters the pack-nut N, its inside diameter being equal to the outside diameter of the pipe O, which enters the other end of the pack-nut, as shown. Surrounding the pipe O, within the pack-nut N, are the washers V, composed of asbestus or other substance, for resisting the action of the liquid fuel. The pack-nut N being screwed into place, the end of the pipe F′ compresses the washers V tightly around the pipe O, by reason of their resting against the inside end of the pack-nut N, as shown in Fig. 2, thereby giving a tight connecting-joint and allowing the pipe F′ to turn within the pack-nut without leakage. The reservoir A and tank B are also connected by a pipe, R, having its ends curved as shown.

My improved reservoir operates as follows, viz: The lever-handle of the stop-cock K being first turned, so that its lower end is free from the groove in the cap K′, the cap is removed and reservoir A filled. The cap being returned to its place and the stop-cock K being now open, the reservoir A is swung upward, the pipes F F′, connected with it, turning in the boxes G G. The tank B, connected to the reservoir A by the pipes M and R, swings downward and the liquid fuel passes from the reservoir A through the pipes H and M and the cross-T L into the tank B, the pipe R serving to preserve the air equilibrium in the tank B and reservoir A. As soon as the stop-cock K is opened, and before the swinging of the reservoir and tank takes place, the liquid fuel remaining in the tank B and connecting-pipes passes through the stop-cock into the reservoir A, thereby putting out the flame in the stove. Nor can the reservoir A be filled without first opening the stop-cock, in order to remove the cap K′, when the same effect takes place.

What I claim as new, and desire to secure by Letters Patent, is—

1. The combination of the reservoir A, having a grooved cap, K′, the pipe H, communicating with the reservoir and having a stop-cock, K, provided with a lever-handle adapted to engage said grooved cap, the tank B, the pipes L M, connecting said tank with the reservoir-pipe H, the horizontal pipes F F′, connected with the pipe L, and the pipe R, connecting the tank and reservoir, substantially as described.

2. The combination of the reservoir A, having a grooved cap, K′, the tank B, the pipes H, L, M, and R, connecting the tank and reservoir, the stop-cock K, the pipes F F′ and O, and the pack-nut N, substantially as described.

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