

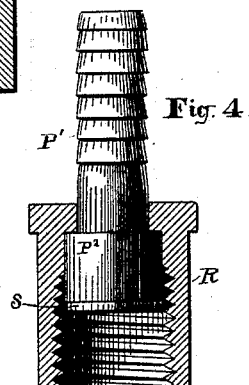
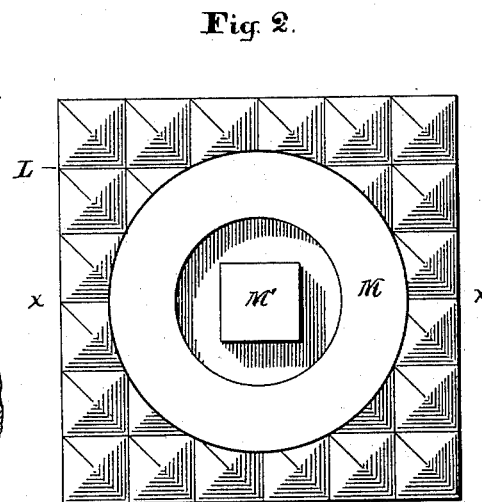
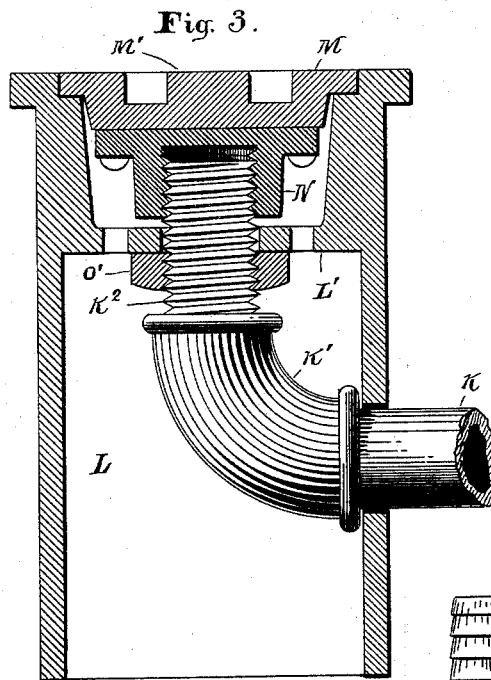
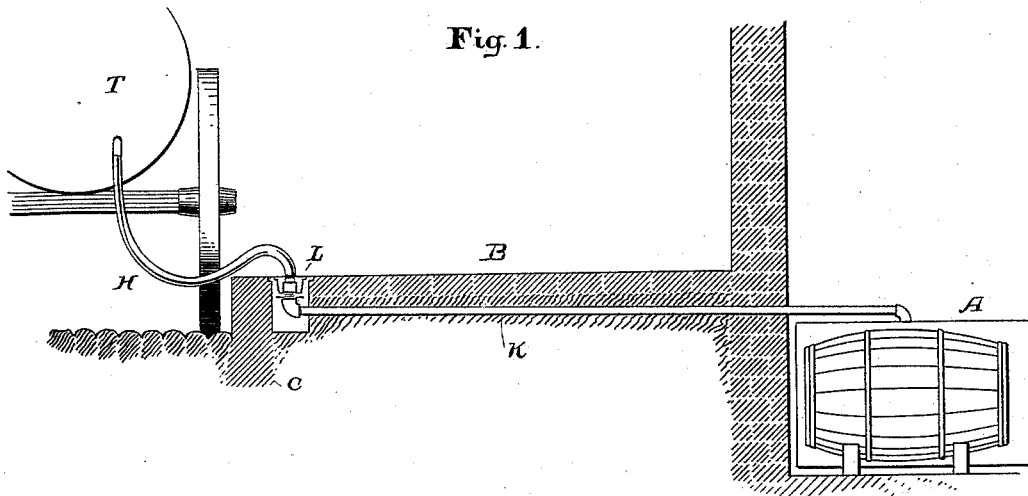
(No Model.)

2 Sheets—Sheet 1.

F. T. FAY.  
OIL DELIVERY APPLIANCE.

No. 488,991.

Patented Jan. 3, 1893.



Witnesses.

*J. V. Redpath*  
*A. E. Norton*

Inventor,

*Frank T. Fay*

*by A. B. Upsham,*  
His Attorney.

(No Model.)

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Fig. 5

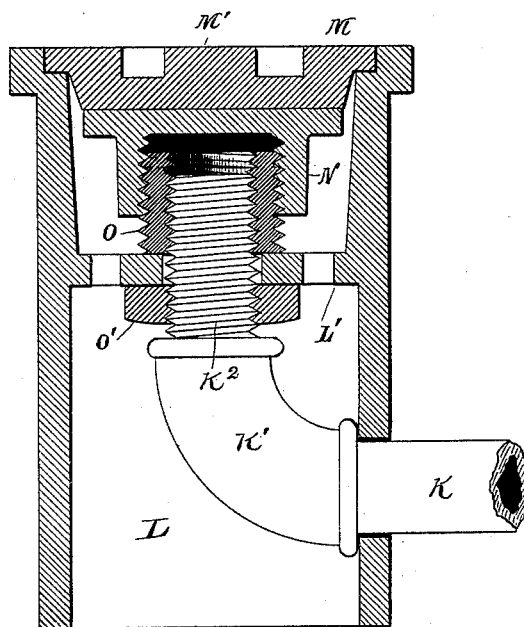
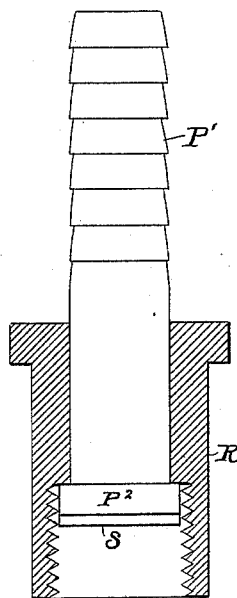


Fig. 6.



Witnessed;

*J. V. Redpath*  
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Inventor,

*Frank T. Fay,*

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# UNITED STATES PATENT OFFICE.

FRANK T. FAY, OF BOSTON, MASSACHUSETTS.

## OIL-DELIVERY APPLIANCE.

SPECIFICATION forming part of Letters Patent No. 488,991, dated January 3, 1893.

Application filed May 21, 1892. Serial No. 433,922. (No model.)

*To all whom it may concern:*

Be it known that I, FRANK T. FAY, of East Boston, county of Suffolk, State of Massachusetts, have invented a certain new and useful Improvement in Oil-Delivery Appliances; and I do hereby declare that the following is a full, clear, and exact description thereof.

In the drawings forming part of this specification, Figure 1 is an elevation showing my complete apparatus; Fig. 2 is a plan view of one of the details of my apparatus; Figs. 3 and 5 are vertical sections of the same through *xx* in Fig. 2; Figs. 4 and 6 are elevations of another detail of my apparatus.

In the delivery of kerosene from tank wagons to the premises of retail dealers therein, it is customary to run a hose-pipe from the cart, across the side-walk to the receptacles in the building. This has been found quite objectionable. The hose, being in the way of passers by, is liable to trip them up, and entail suits for broken limbs. Or the pipe may spring a leak, muss the side walk and ruin the clothing of passing ladies. Even when such mishaps do not occur the method described is unsightly and inconvenient. To remedy such defects, I have devised the arrangement hereinafter described, which consists essentially of a metallic pipe buried beneath the side walk and terminating at one end in the dealer's premises, and at the other end in a peculiar coupling-box with which a short section of hose from the tank wagon can be readily connected.

Referring to Fig. 1 of the drawings, A represents the basement of a grocery store, or other dealer; B, the side walk; C, the curb stone, and D, the tank wagon. K is the section of pipe buried beneath the sidewalk, and terminating at one end in the coupling-box L near the curbstone. This coupling-box, which is shown more in detail in Figs. 2 and 3, consists of a rectangular casting separated into two chambers by the horizontal partition L'. The upper of said chambers is circular in horizontal section and provided with a circular, loosely fitting cover M. In said cover, an annular portion is so depressed as to form a square boss, M', for enabling the cover to be turned by means of a suitable wrench. In the side of the lower chamber of the coupling-box, is an opening through which enters the

pipe, K, into the elbow K'. A threaded stub, K<sup>2</sup>, screwed firmly into the elbow, K', projects a short distance above the partition, L', as shown in Fig. 3. To the under side of the cover, M, is secured, by means of rivets, or otherwise, a cap, N, internally threaded to fit upon the stub, K<sup>2</sup>. By turning the cover, M, this cap is screwed upon, or unscrewed from, the stub end K<sup>2</sup>. This is the construction illustrated in Fig. 3. While this is a practical arrangement, my preferable construction is that shown in Fig. 5. Here, instead of screwing the cap, N, and the hose-coupling R, directly upon the stub K<sup>2</sup>, I surround said stub with the internally and externally threaded thimble, O; and fit the said cap and coupling to this. Screwed upon the stub K<sup>2</sup>, beneath the partition L', is a nut O'. By setting this nut and the thimble O, firmly against the two sides of the partition L', the pipe K is secured firmly in the coupling box L; and no settling of the ground about the same can vary the position, relative to the said box, of the threaded portion with which the cap, N, engages. Without such an arrangement, the box L might become so canted, or otherwise moved, that the cover, M, would prevent the cap N from engaging the pipe end.

For enabling the short section of hose from the tank to be coupled to the coupling-box, L, I have devised the coupling consisting of the corrugated hose-engaging portion, P', having elongated shoulder, P<sup>2</sup>, and the elongated sleeve R. The interior lower part of this sleeve is threaded to fit upon the stub, K<sup>2</sup>, of the coupling-box. At the lower end of the shoulder, P<sup>2</sup>, is a rubber or leather washer S.

By removing the cover, M, of the coupling-box and screwing the sleeve R tightly down about the stub K<sup>2</sup> so that the washer S and shoulder, P<sup>2</sup>, fit water-tight upon the end of said stub, a hose, H, being connected with the coupling end P', the oil from the tank-wagon, D, can easily drain through the hose, H, and pipe K, into any receptacle provided therefor in the basement A.

The upper surface of the coupling box L is corrugated or roughened to prevent the slipping thereon of the feet of passers-by. The lower end of the coupling-box is, further, made entirely open and the partition L', perforated, as shown in Fig. 3, in order that what-

ever water should leak into the upper chamber might not freeze therein in cold weather, but percolate into the soil beneath.

What I claim as my invention and desire to secure by Letters Patent is as follows, to wit:

1. The combination with the pipe K, of the coupling-box holding the threaded stub K<sup>2</sup> connected with said pipe, the cover M, fitting into said coupling-box and having fixed to it the threaded cap N, adapted to be screwed upon said stub, substantially as and for the purpose set forth.

2. The coupling-box L having the perforated partition L', the stub K<sup>2</sup> and the pipe K rigidly connected therewith, in combination with the circular cover M fitting into the

coupling-box and having wrench-boss M', and the cap N, fixed to said cover and adapted to be connected with said stub K<sup>2</sup>, substantially as and for the purpose specified.

3. The coupling-box, L, having partition L', the pipe K, elbow K', stub K<sup>2</sup>, thimble O, and washer O', in combination with the cover M and cap N threaded to fit upon said thimble, as set forth.

In testimony that I claim the foregoing invention I have hereunto set my hand this 6th day of May, in the year 1892.

FRANK T. FAY.

Witnesses:

A. B. UPHAM,

HELEN A. MELROSE.