HENRY C. BULL.

Improvement in Apparatus for Cleaning Privies.

No. 115.565. Patented June 6, 1871.

Fig. 1.

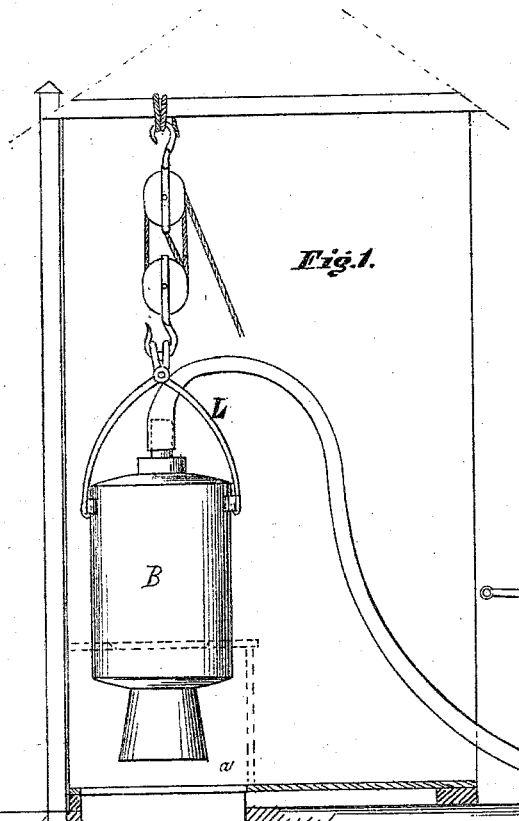


Fig. 2.

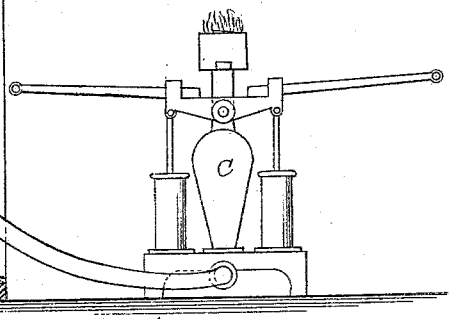


Fig. 3.

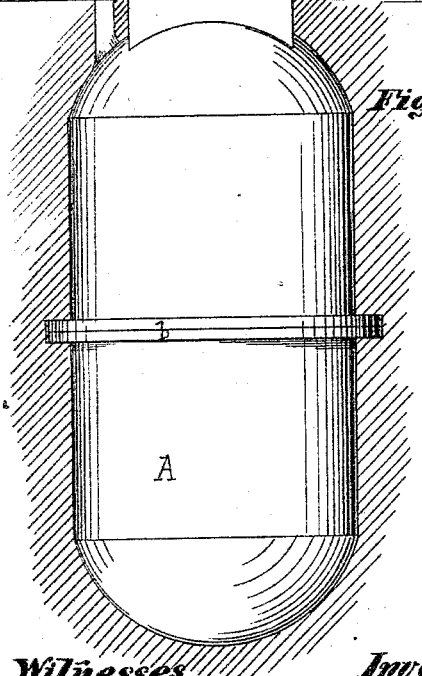
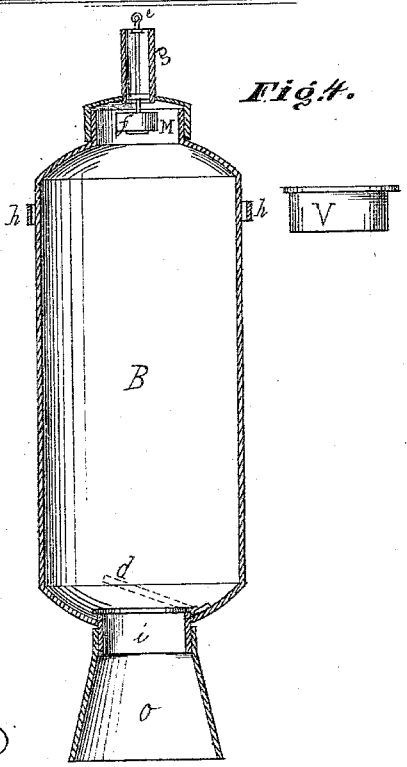


Fig. 4.



Witnesses.

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J. Drury

Inventor:

H. C. Bull

By Myers & Co

UNITED STATES PATENT OFFICE.

HENRY C. BULL, OF NEW ORLEANS, LOUISIANA, ASSIGNOR OF ONE-HALF HIS RIGHT TO JOSEPH M. LOWENSTEIN, OF SAME PLACE.

IMPROVEMENT IN APPARATUS FOR CLEANING PRIVIES.

Specification forming part of Letters Patent No. 115,565, dated June 6, 1871.

I, HENRY C. BULL, of New Orleans city, in the State of Louisiana, have invented certain Improvements in Apparatus for Cleaning Privies, of which the following is a specification:

Description of the Accompanying Drawing.

Figure 1 is a view in perspective of the cask or package A, showing the method of suspending and operating the same. Fig. 2 is a side elevation of the suction-pump and furnace. Fig. 3 is a plan view of the vault. Fig. 4 is a vertical transverse section of the cask or receptacle shown in Fig. 1.

My invention relates to an improvement in devices for cleaning or emptying privy-vaults, whereby the night-soil therein contained may be removed and utilized and the disagreeable odors arising therefrom prevented. It consists of the vault A, receptacles or casks B, and the suction-pump with furnace C, constructed and operated as shown and described.

A, a cylindrical privy-vault, constructed of metal or other suitable water-tight material, and provided with the neck *a* and the flange *b*, which latter is designed as an auxiliary for holding it in a vertical position, as also for strengthening the same. B represents one of several casks or receptacles which are employed as adjuncts of the suction-pump C for removing the fecal matter from the vault. It has located at its lower extremity the funnel O, which fits air-tight upon the neck *i*, and the valve *d*, which opens upwardly; and at its apex the float-valve *f* is provided, which screws upon or is otherwise caused to fit air-tight upon the neck M. The float-valve *f* consists of the rod *e* located vertically in the tube *g*, the said rod being guided by orifices provided in transverse bars in the upper and lower ends thereof. The lower part of the float-valve is made of cork or other light material in order that when the cask or receptacle becomes filled by the action of the suction-pump it may press against the orifice of the tube and thereby prevent the contents of the vault A from overflowing or extending beyond the cask B. *h h* are shoulders rigidly attached to the cask B, and are designed for clutching with the clamps L. V represents one of a series of caps which are screwed upon the neck or necks of casks A when filled by the action of the suction-pump.

The method of operating my device is as follows: After removing the seat or floor the receptacle B is suspended from a block and tackle over the opening, and the cask or receptacle A is then lowered into the vault until the funnel O enters the fecal matter about ten inches, whereupon, by operating the suction-pump the receptacle or cask becomes filled with the feces until it reaches the float-valve *f*, which presses against and closes the orifice of the tube leading to the pump. The valve *d* then falls and prevents the escape of the contents of the cask. In the meantime the air that is pumped out of the receptacle B is forced into a furnace located over the suction-pump, whereby the odor arising therefrom is destroyed. When one receptacle is thus filled the valve *f* is removed and the cap V screwed thereon, whereupon the operation is repeated by the employment of another cask until the vault is emptied of its contents.

Claims.

I claim—

1. The combination and arrangement of the funnel O, neck *i*, and valve *d* with cask B, neck M, and float-valve *f*, substantially as shown and described.

2. The combination and arrangement of the vault A, cask B, and suction-pump C, substantially in the manner and for the purpose described.

In testimony of this my application for Letters Patent for an improvement in apparatus for cleaning privy-vaults I hereunto subscribe my name.

HENRY C. BULL.

Witnesses:
JOEL E. CANNON,
ROBERT KING.