

(No Model.)

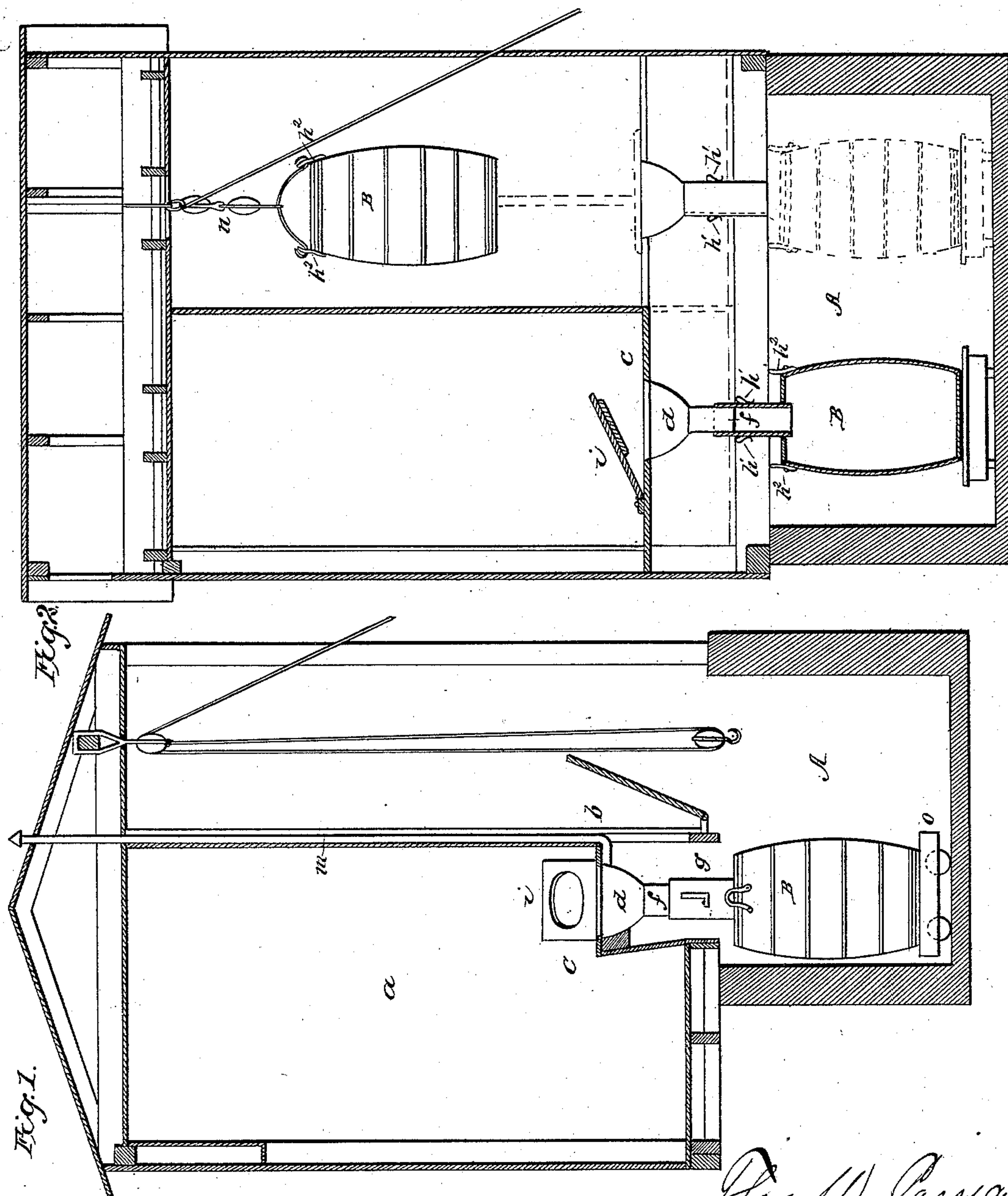
2 Sheets—Sheet 1.

T. W. CARRICO.

CONSTRUCTION OF PRIVY VAULTS AND APPARATUS FOR USE THEREWITH.

No. 335,177.

Patented Feb. 2, 1886.



WITNESSES

Jos. A. Ryan  
Wm. L. King

Thos. W. Carrico  
INVENTOR  
By Chas. E. Barber  
By his Attorney

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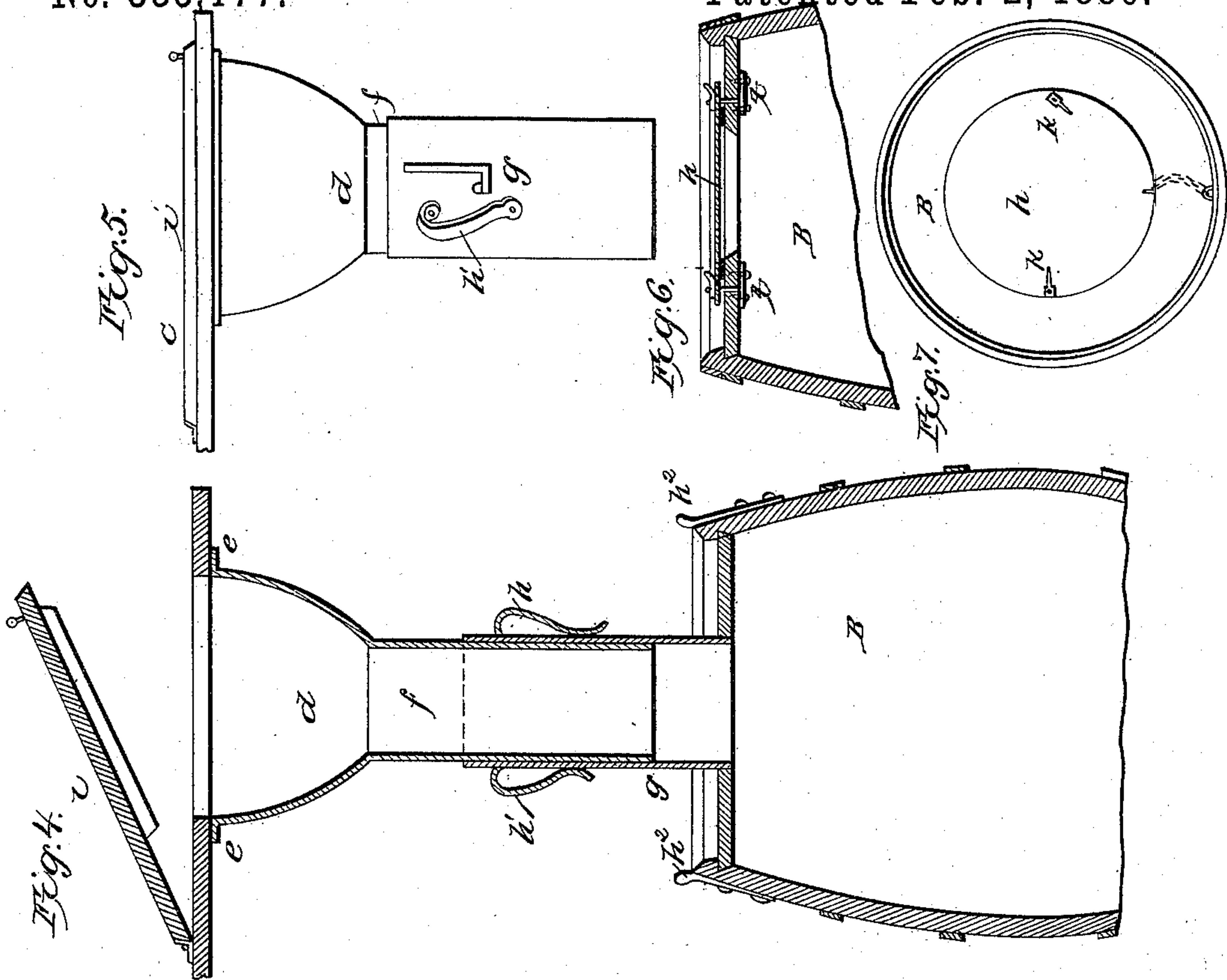
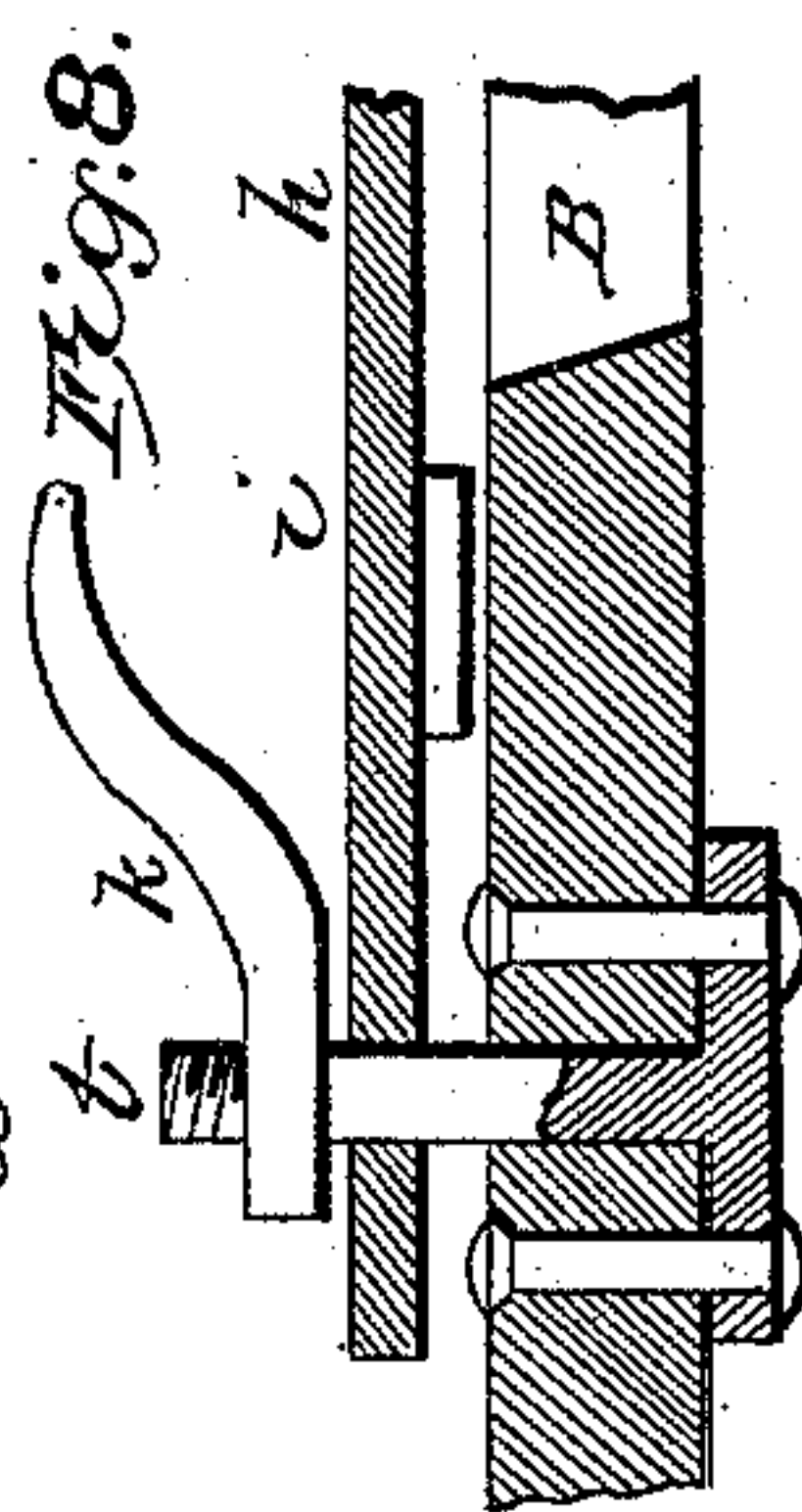
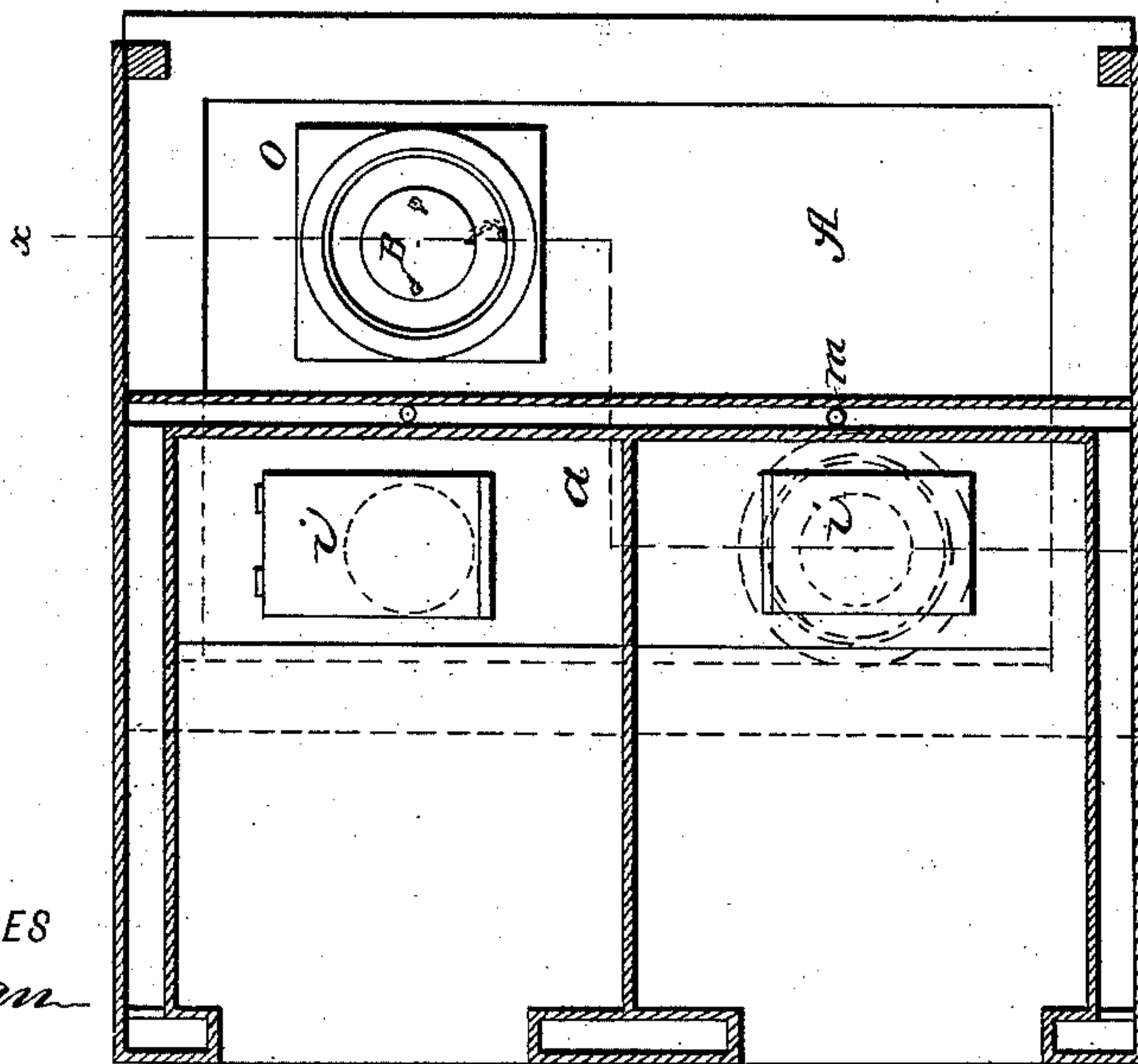


Fig. 3.



WITNESSES  
*Jos. A. Ryan*  
*Wm. J. King*

*Thos. W. Carrico*  
INVENTOR  
*by Chas. E. Barber*  
By *his* Attorney



# UNITED STATES PATENT OFFICE.

THOMAS W. CARRICO, OF SAN ANTONIO, TEXAS.

CONSTRUCTION OF PRIVY-VAULTS AND APPARATUS FOR USE THEREWITH.

SPECIFICATION forming part of Letters Patent No. 335,177, dated February 2, 1886.

Application filed August 25, 1884. Serial No. 141,434. (No model.)

*To all whom it may concern:*

Be it known that I, THOMAS W. CARRICO, of San Antonio, in the county of Bexar and State of Texas, have invented a new and useful Improvement in the Construction of Privy-Vaults and Apparatus for Use Therewith, of which the following is a full, clear, and exact description.

The object of my invention is to insure cleanliness in and around privy-vaults and to prevent accumulations therein, especially in localities where water is not easily available; and to those ends my invention consists in the construction and in the arrangements herein-after described and claimed.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a vertical cross-section of a vault and building of the improved construction. Fig. 2 is a section lengthwise of the vault on the line *x x* in Fig. 3. Fig. 3 is a sectional plan view above ground. Fig. 4 is a section, in larger size, of the hopper and receptacle. Fig. 5 is a side view of the hopper. Figs. 6, 7, and 8 are detail views.

The vault A is to be of any suitable length and width, according to the number of receptacles it is to contain, and is to be in length about twice the width and of such depth that the top of the receptacle used will be near the surface of the ground. The walls and bottom of the vault are formed of concrete, so as to be proof against the absorption of liquid, and the inside may be covered with cement.

Over the vault is constructed the building, but its floor covers only one half of the vault, and the back wall, *a*, is set into the floor, so that the vault is accessible from the outside. The roof extends over the outside portion of the vault, and a slanting cover is provided at *b* to exclude rain. Within the building are seats *c*, to which the hoppers *d* are attached by means of flanges *e*, so that the hoppers are suspended. The hoppers, as shown most clearly in Figs. 4 and 5, have tubular extensions *f*, that are fitted with telescopic outer tubes, *g*, held by a bayonet-catch, so that they can be raised and lowered when a receptacle is put in place or one removed, and handles *h'* are fitted on tubes *g* for use in moving them.

The receptacles B are tight barrels, having openings in their heads to receive the tube *g* snugly; and for closing the openings I provide the plates *h*, that have packings at *i* to fit around the openings in the barrels. On the heads, as shown in Fig. 8, there are screw-pins *t*, which pass through the covering-plates *h*, and have nuts *k* for clamping the covers down tightly. The barrels are also provided with handles *h'*.

The seats *c* are provided with covers *l*, fitting closely, and from the sides of hoppers *d* pipes *m* pass upward and through the roof of the building for ventilating the receptacles and to prevent accumulation of gases.

Above the outside part of the vault A, I provide a fall, *n*, which is to be used to draw up the barrels when filled and to lower empty ones. The barrels rest on small wheeled trucks *o*, so that they can be readily moved into the position for connection with the hoppers and also moved out for being raised.

With these arrangements the vault can be kept in a cleanly condition at all times, and there will be no exposure of excrement to the air in the vault. The air will not be tainted by unhealthy odors, neither can there be any escape of liquids into the ground in case the barrels overflow.

The covering-plates *h* will be attached to the barrels by chains, so as to be at hand when required.

The vault is to be larger or smaller, according to the number of barrels to be used in it, and it may be ventilated by a pipe passing upward through the house.

The vault and the coverings for the receptacle herein described form no part of the present invention.

I am aware that it is old to provide sections of pipe, &c., with a bayonet-fastening, and I therefore disclaim the broad idea of such fastening; but I am not aware that a hopper of the character described has been provided with such a fastening in this particular connection, and as it is desirable when changing the barrels underneath the hopper to have the neck of the hopper suspended out of the way of the top of the barrel and to have it remain in place while the removal of barrels takes place, I provide this L-shaped bayonet-fastening, whereby, by giving the sleeve a partial rotation, it will

be held in position by the lug on the lower  
portion of the hopper. Again, as these pipes,  
from the nature of the case, are quite liable to be-  
come covered with a damp coating of slime and  
5 impure moisture, it is very desirable to have  
them so constructed that they will be easily  
and readily operated and at the same time be  
practically tight. To facilitate this operation,  
then, I provide the handles on each side of the  
10 sleeve, which afford a means of grasping and  
holding the sleeve with very little liability of  
soiling the hands, as well as enabling the oper-  
ator to move a tightly-fitting sleeve, which,  
were it not for the handles, might be practically  
15 immovable.

What I claim as new is—

In a dry privy-vault for outhouses, a seat and  
a hopper suspended therefrom and provided  
with a lug, in combination with a barrel and  
a sleeve telescopically secured over the lower 20  
portion of the hopper and provided with an L-  
shaped slot, which fits over and surrounds the  
lug on the hopper, and also having handles on  
the outside of the sleeve, all constructed and  
combined to operate substantially as described, 25  
whereby the sleeve may be raised or lowered  
as the barrels are removed and replaced, sub-  
stantially as set forth.

THOMAS W. CARRICO.

Witnesses:

WILLIAM P. GOODLOE,  
ROBERT S. WENTWORTH.