

(No Model.)

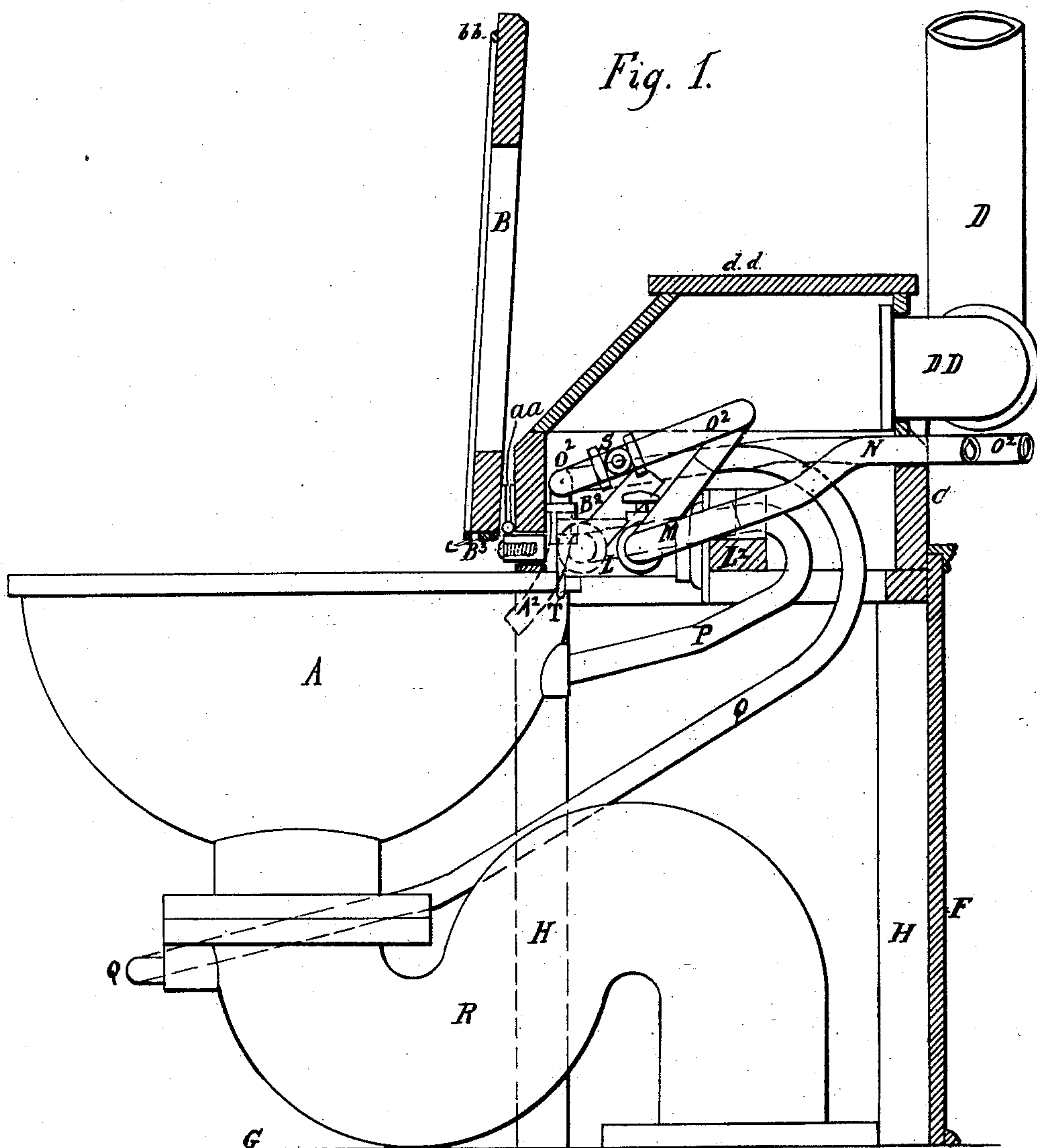
6 Sheets—Sheet 1.

P. NICOLLE.

COMBINATION WATER CLOSET, SEAT, &c.

No. 603,732.

Patented May 10, 1898.



*Witnesses,*

Fredrick James Bird.  
Thomas Bull.

*Inventor.*

Philip Nicolls

(No Model.)

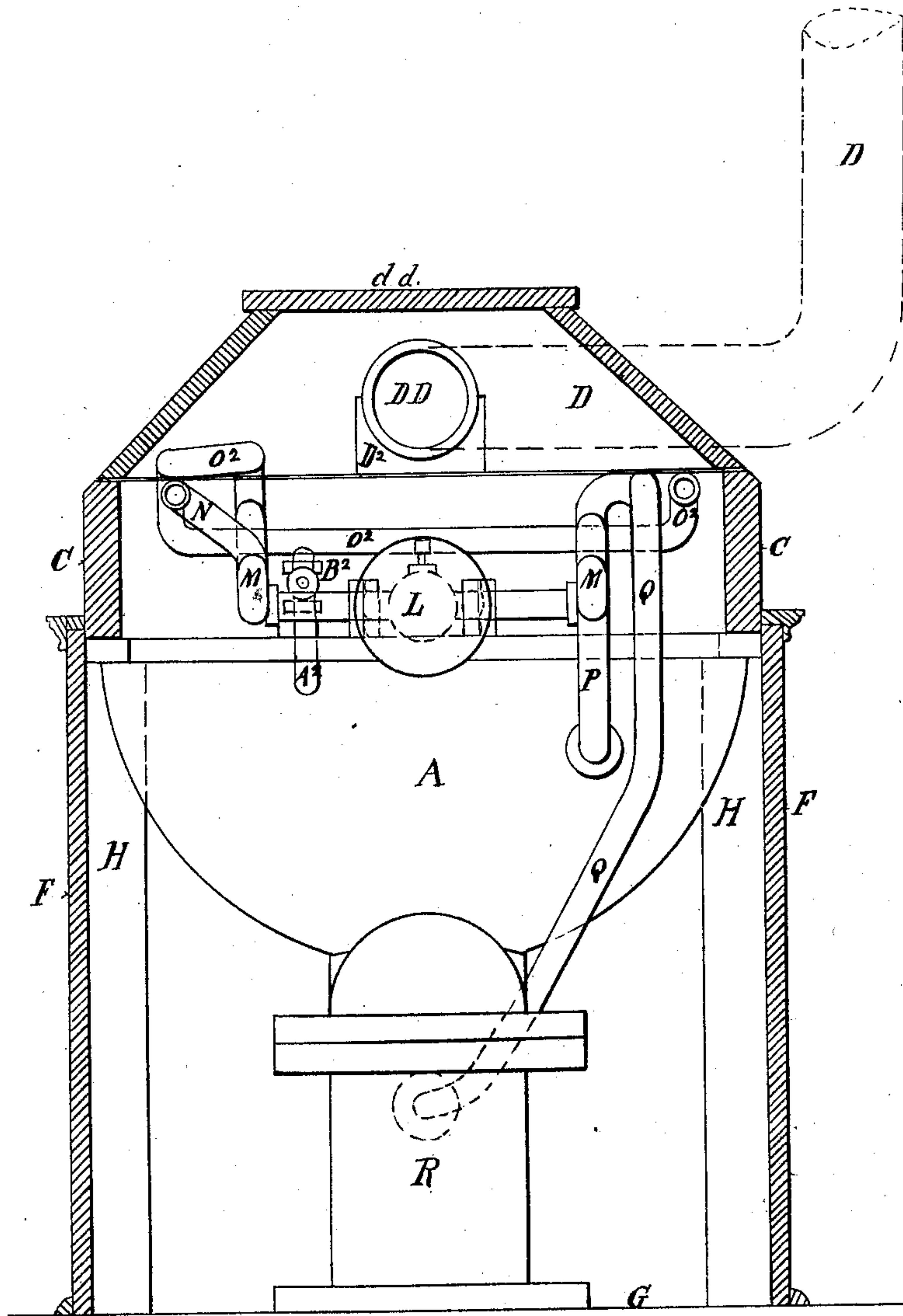
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P. NICOLLE.  
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Fig. 2.



Witnesses.

Fredrick James Bird.

Thomas Butler

Inventor.

Philip Nicolle

(No Model.)

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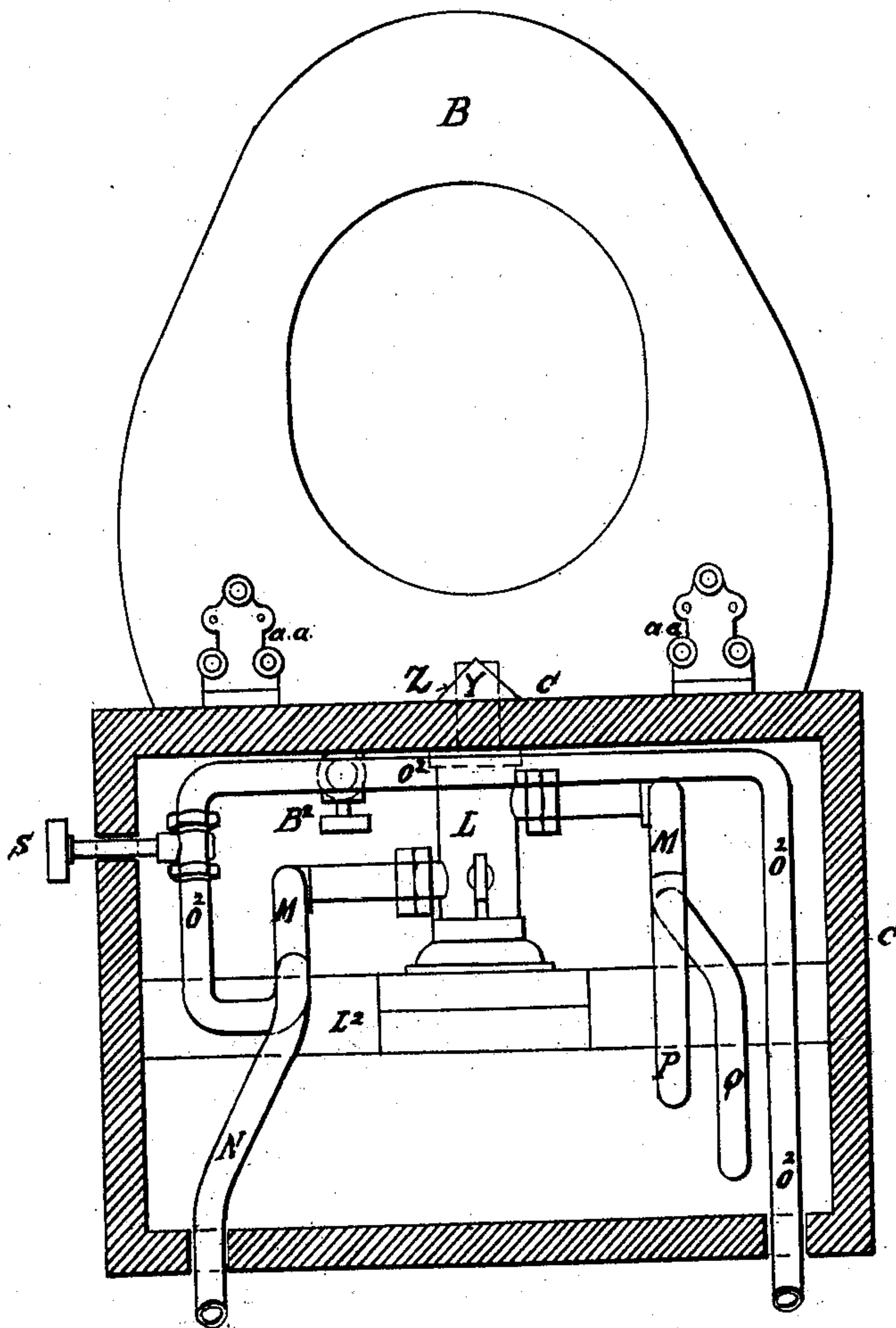
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*Fig. 3.*



*Witnesses,*  
*Friedrich James Bird.*  
*Thomas Butler*

*Inventor,*  
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(No Model.)

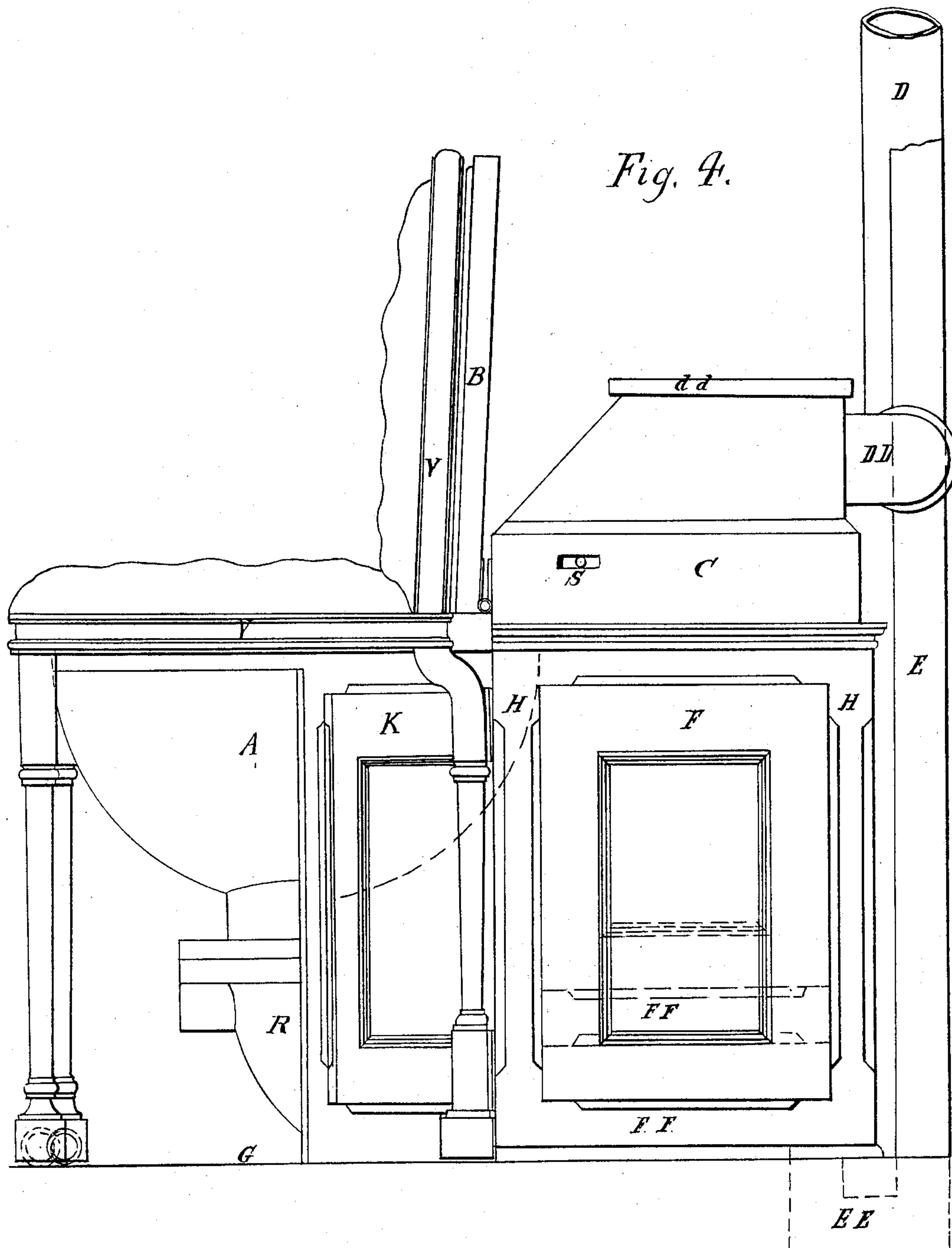
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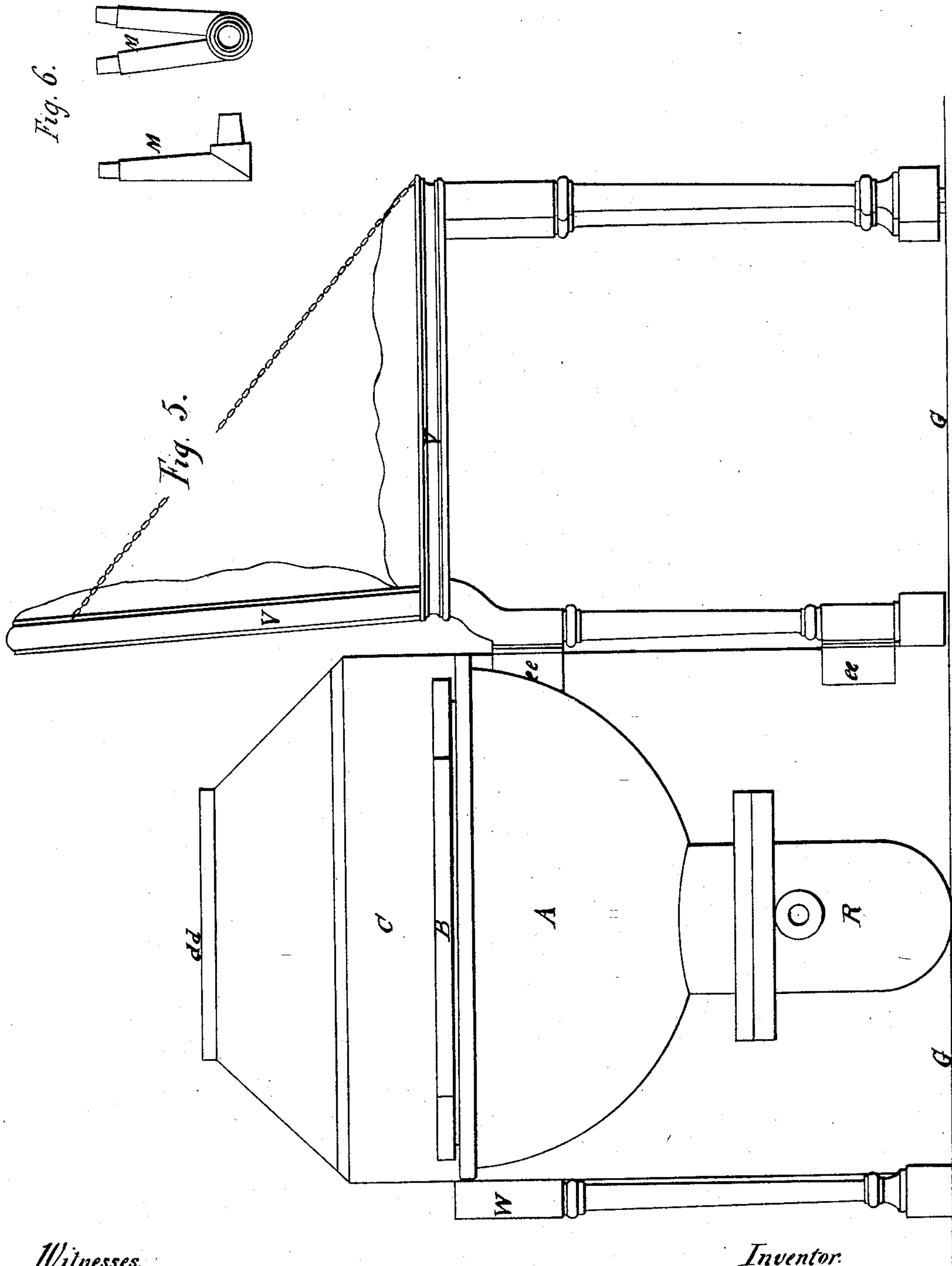
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Witnesses.

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Thomas Butler.

Inventor.

Philip Nicolle.

(No Model.)

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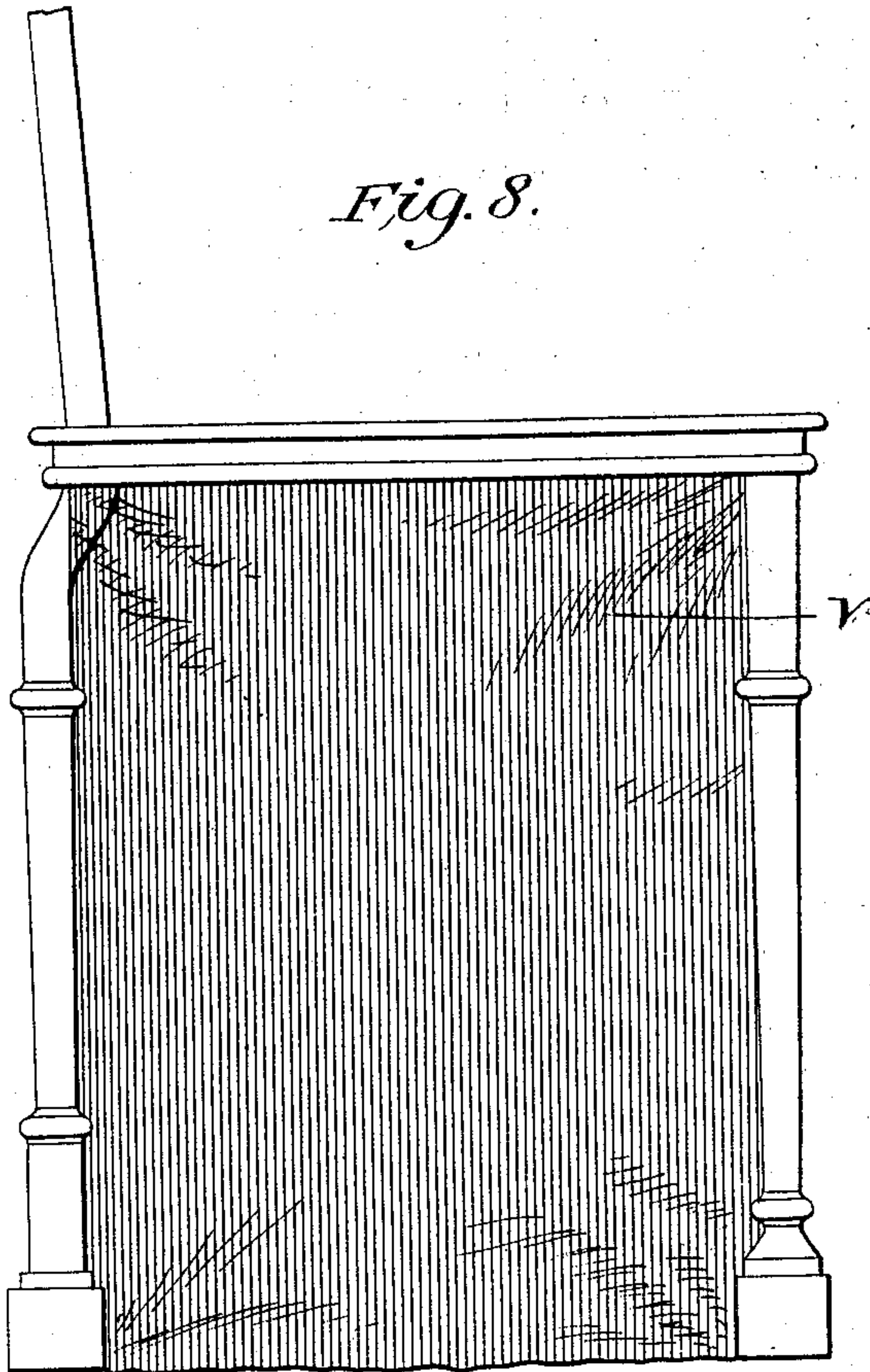
P. NICOLLE.

COMBINATION WATER CLOSET, SEAT, &c.

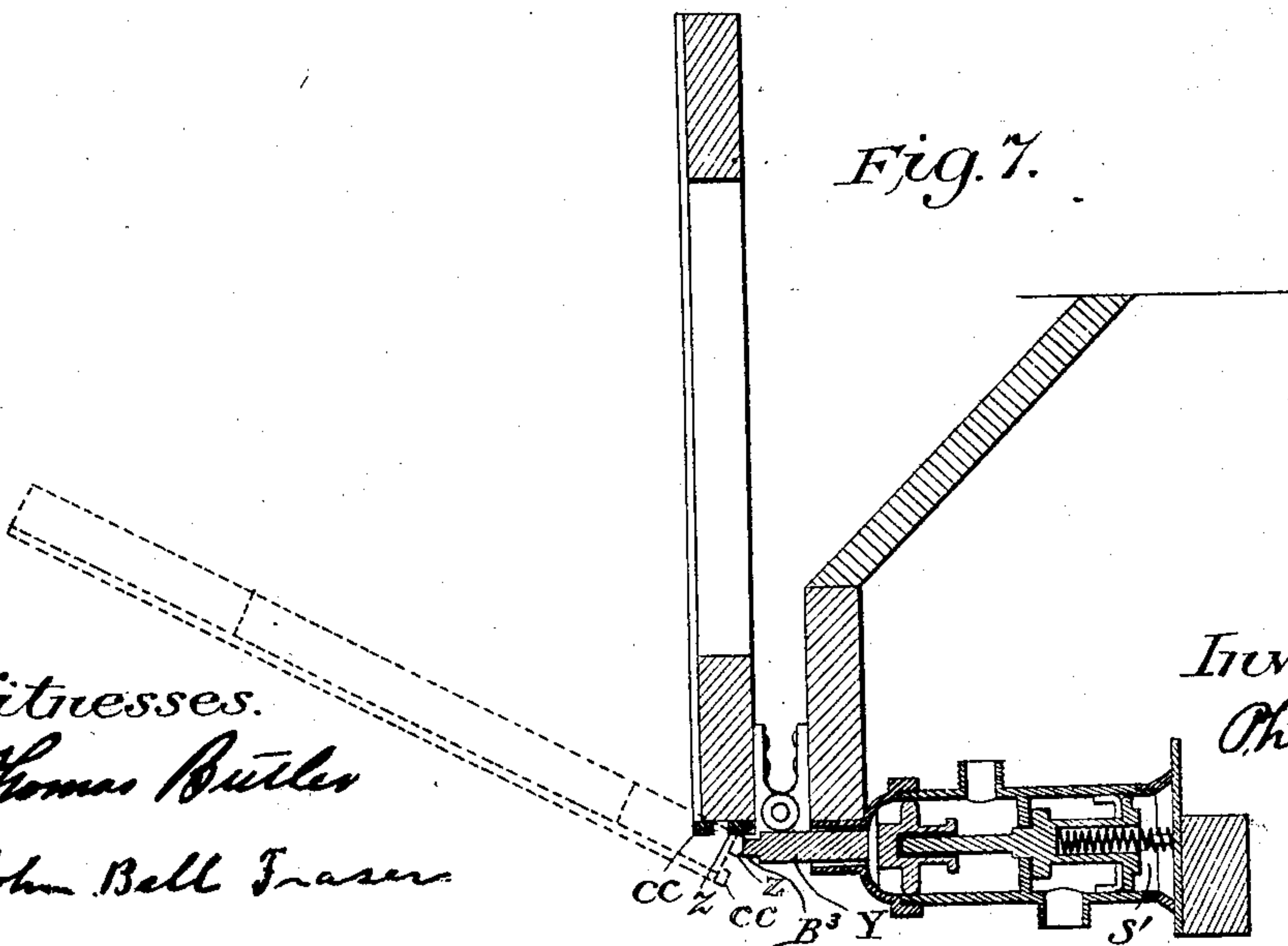
No. 603,732.

Patented May 10, 1898.

*Fig. 8.*



*Fig. 7.*



Witnesses.

*Thomas Butler*

*John Bell Fraser*

Inventor.

*Philip Nicolle*



# UNITED STATES PATENT OFFICE.

PHILIP NICOLLE, OF TORONTO, CANADA.

## COMBINATION WATER-CLOSET, SEAT, &c.

SPECIFICATION forming part of Letters Patent No. 603,732, dated May 10, 1898.

Application filed March 31, 1897. Serial No. 630,179. (No model.) Patented in Canada February 6, 1897, No. 54,900.

*To all whom it may concern:*

Be it known that I, PHILIP NICOLLE, a citizen of the Dominion of Canada, residing at the city of Toronto, in the county of York and Province of Ontario, Canada, have invented new and useful Improvements in the Combination of Closet-Seat, Double-Flushing Warm or Cold Water Valve, Odorless Bowl, and Curtain-Chair, (for which I have applied for a patent in Canada, No. 74,954, bearing date October 26, 1896, No. of patent 54,900, bearing date February 6, 1897,) of which the following is a specification.

My invention relates to improvements in water-closet seats by which the back edge thereof operates the flushing-valve, which valve is secured to a strip of wood, which is fixed to the inside of air-box at rear of closet-bowl, the said valve having one-third of itself over closet-bowl rim, with its waste-water branch inside and below said rim at back of bowl; and the objects of my improvements are, first, to provide a light-weight closet-seat which can be forced upward by the steel spring placed at back end inside of flushing-valve when said valve is closing, the back edge thereof being in touch with the regulating screw-head in end of flushing-valve rod, and when the seat is occupied the valve is opened, by means of which the water flows through a three-way branch junction into connecting-pipes, simultaneously flushing the closet-bowl and trap under said bowl by warm or by cold water alone, and when the seat is released the aforesaid valve-rod and screw-head force it upward when the said valve is closing; second, to provide a receptacle into which the waste or other leakage from flushing-valve drains, and also to provide a cold-water-supply pipe and a hot-water-supply pipe which is provided with a tap to shut off hot water, each pipe being connected to a three-way branch junction on one side of said valve, and when said tap is opened the hot and cold water join together before passing through said valve, then passing through on the other side of said valve in another three-way branch junction, thence through its connecting-pipes to rim of closet-bowl and trap under closet-bowl when the flushing-valve is opened; third, to provide a hot-water branch supply-pipe from hot-water-supply pipe go-

ing direct into closet-bowl. The said hot-water branch supply-pipe is provided with a tap to shut off or let in hot water to closet-bowl; fourth, to provide an air-box which has a loose cover for access to valve, pipes, taps, or other purpose, and in which box the said valve, pipes, and taps are secured and concealed. The said box is supported by a paneled frame fitted to closet-floor and closet-bowl. A downdraft air-duct from above floor is provided, going downward in an elbow underneath of closet floor and frame, going through floor, and allowing the air to enter inside of said paneled frame. If this said duct cannot be provided, provision is made allowing the air from closet-room floor to enter under the bottom rail of said frame, which bottom rail is then placed four inches above said floor, and by either means the vitiated air which may collect from closet-bowl is carried up into vent-pipe, which vent-pipe is at rear of said loose cover, and, fifth, to provide a curtained chair having three legs only attached to it, the two front having rollers at the foot of each. The rear leg is secured by hinges to one of the front paneled frame corner-supports to enable said chair to be moved over the closet-bowl, and vice versa. The other rear leg is detached from said chair and is fixed to the other front corner-support on the opposite side from hinged leg. A small brass or plated chain is attached to back and to seat of chair on the side which has no leg to better hold up the seat in case it is occupied. A curtain suspended from underneath the seat will conceal the closet-bowl. Said chair seat and back can be upholstered. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a longitudinal vertical section of the different parts of my invention. Fig. 2 is a transverse vertical section of the same. Fig. 3 is a horizontal sectional plan of the same. Fig. 4 is an outside side elevation of the apparatus complete. Fig. 5 is an outside front view of closet bowl and trap, closet-seat, air-box and its cover, false leg of chair and its chain swung back on its hinges and rollers. Fig. 6 is an enlarged view of junctions with three-way branches. Fig. 7 is a longitudinal vertical section of closet-seat



and air-box, cross-section of rubber, and a horizontal view of valve and its steel spring. Fig. 8 is a side view of chair and curtain.

Similar letters refer to similar parts throughout the several views.

A is the closet-bowl, on which is placed the seat B. Said seat has affixed to its under side a strip of india-rubber or felt *b b*, and a similar strip *c c* at its back edge, to enable said seat fitting tightly on closet-bowl rim when said seat is put down and the back edge thereof against front of air-box C. (See Fig. 7.) Said back of seat is attached by hinges *a a* to front of said box, which is at rear of closet-bowl, which box contains a flushing-valve L, with its end rod Y and screw-head B<sup>3</sup> passing loosely through front of said box, which screw-head is in touch with metal piece *h*, fixed to back edge of seat, the said valve having connected at its underside a waste-water branch T for the purpose of carrying off said water or other leakage from said valve draining into said closet-bowl and obviating the necessity of using the ordinary lead safe under said bowl. (See Fig. 1.) The said valve is secured to a strip of wood L<sup>2</sup> inside of said air-box. On each side of said valve is connected the branch of a three-way branch junction M, having each end filed down, (see Fig. 6,) allowing a lead pipe to be wiped thereon. These said junctions have connected on one side of said valve a cold-water-supply pipe N, a hot-water-supply pipe O<sup>2</sup>, the other end of which is not shown connected to hot-water boiler, which hot-water pipe is provided with a trap S, having its handles passing through end of said box to shut off hot-water supply, and on the other side of said valve have also connected a flushing-pipe P, leading to said closet-bowl rim, and a flushing-pipe Q, leading to end of trap R, under said bowl. (See Figs. 1, 2, 3, and 4.)

If warm water for flushing is desired at any time, more particularly for a delicate or sick person, tap S is opened, allowing the hot and cold water together, and when seat B is pressed down or occupied the metal piece *h*, fixed to back edge thereof, is then pressing the screw-head B<sup>3</sup> and rod Y of flushing-valve L is pressing a steel spring S', placed at back, inside of said valve, which is then opened, allowing the warm water to pass through said valve, thence through three-way branch junctions M into connecting-pipes P and Q, simultaneously flushing closet bowl and trap as long as said seat is occupied, retaining warm air inside of said closet bowl, and when the seat is released it is forced upward by the said spring, valve-rod, and screw-head (see dotted lines, Fig. 7) when the valve is closing. (See Fig. 1.)

If cold water for flushing is desired, the tap S can again be closed. (See Figs. 1 and 3.)

If hot water alone is needed for washing closet-bowl, vessels, or other purpose, there will be a hot-water branch pipe A<sup>2</sup>, provided with a tap B<sup>2</sup> to shut off or let in hot water to said bowl. Said branch is connected to

hot-water-supply pipe O<sup>2</sup>, which branch leads over at back and below the rim inside of closet-bowl. If hot water, previously mentioned, is required, the loose cover *d d* will be removed from over box C, and tap S on said branch can be opened and tap S on said hot-water-supply pipe closed, in which case the closet-bowl must be free from any india-rubber connection which might come in contact with said hot water. (See Figs. 1, 2, 3, and 4.)

The air-box C, with its loose cover *d d*, is supported on each side by a paneled frame F and fitted to closet-floor G, and closet-bowl A and the front diagonal paneled frame K are fitted to inside of support H of said frame, closet-bowl, and floor. A downdraft air-duct E is provided at the rear of said frame, which duct will be connected to an elbow through base of floor above and connected to said draft E, going downward, connecting with elbow E E underneath of said closet-floor and frame, going through said floor, allowing the air to enter into said frame. If said duct cannot be provided, the rail F F is placed four inches above said floor, allowing the air from closet-room floor to enter into said frame, and by either means the odor from closet-bowl is carried upward into elbow D D and vent-pipe D at rear of said loose cover, thence in chimney and above roof of building. (See Fig. 1.)

The loose cover *d d* of box C is so constructed that its back edge is fitted over the top half circumference of elbow D D to enable said cover to be removed at will, the lower half of said elbow fitting into block D<sup>2</sup> on rear edge of said box. (See Figs. 2 and 4.)

The closet-lid chair V, having three legs only attached to it—two in front, with rollers at foot of each, the rear leg secured by hinges *e e* to front corner—support H of paneled frame F—will enable said chair being moved over closet-bowl A, and vice versa. The other rear leg W is detached from said chair and is fixed to the other front corner-support H. (See Figs. 4 and 5.) A small chain is attached to back of chair V, leading down to the under side of seat at rear corner, which has no leg, for better holding up said seat should it be occupied when it has been rolled back from over said bowl. (See Fig. 5.)

A curtain will be suspended underneath the chair-seat V inside of legs. (See Fig. 8.) Said seat forms the lid of closet-bowl A when said chair is over said bowl. The back of chair hides the closet-seat B when said closet-seat is raised in an upright position and curtain conceals the closet-bowl. (See Fig. 8.)

I am aware that prior to my invention closet-seat, warm or cold water valve, pipes, taps, bowls, duct, air-box, and vent-pipes, curtain, and chair have been made. I therefore do not claim such combination broadly; but

What I do claim as my invention, and desire to secure by Letters Patent, is—

A closet-seat, comprising the seat B, the



metal piece *h*, the india-rubber *c c*, the box  
C, the flushing-valve L, its screw-head B<sup>3</sup>,  
the branch and its three-way branch junctions  
M on each side of said valve, the cold-water-  
5 supply pipe N and hot-water-supply pipe O<sup>2</sup>  
provided with a tap S, the flushing-pipe P  
and closet-bowl A, the flushing-pipe Q and  
trap R, the waste-water branch T of said  
valve and said closet-bowl, the chair V its  
10 hinged rear leg and support H, its detached

rear leg W and support H, the chair-seat and  
back closet-seat curtain and said bowl, and  
the chain, all arranged and combined sub-  
stantially as and for the purpose hereinbefore  
set forth.

PHILIP NICOLLE.

Witnesses:

FREDERICK JAMES BIRD,  
THOMAS BUTLER.