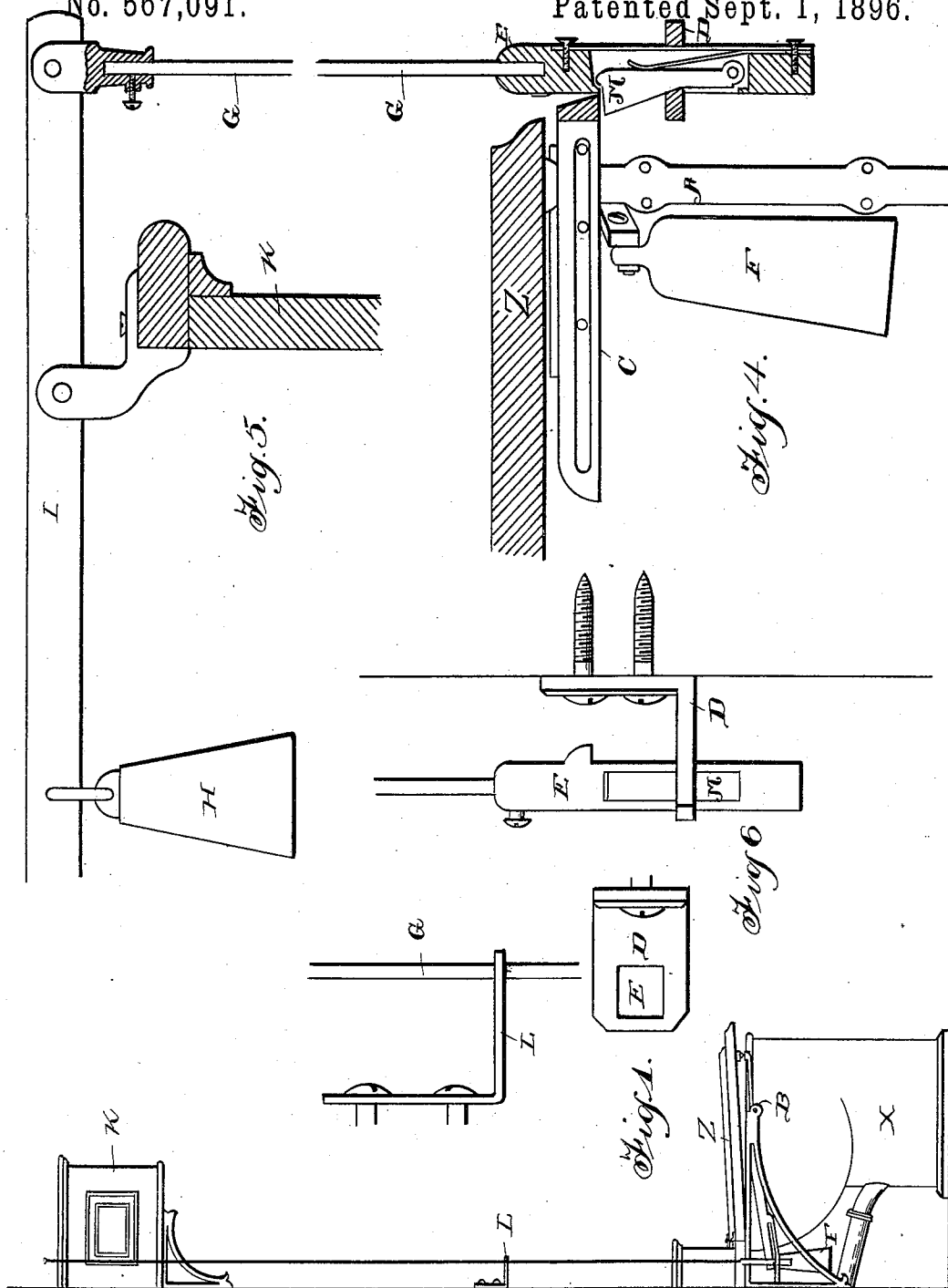


2 Sheets—Sheet 1.

No. 567,091.

Patented Sept. 1, 1896.



Witnesses:

Inventor.

Wm. J. Doyle
J. A. Wilson

Inventor.
John F. Goodwin.
By, H. B. Wilson
Attorney.

(No Model.)

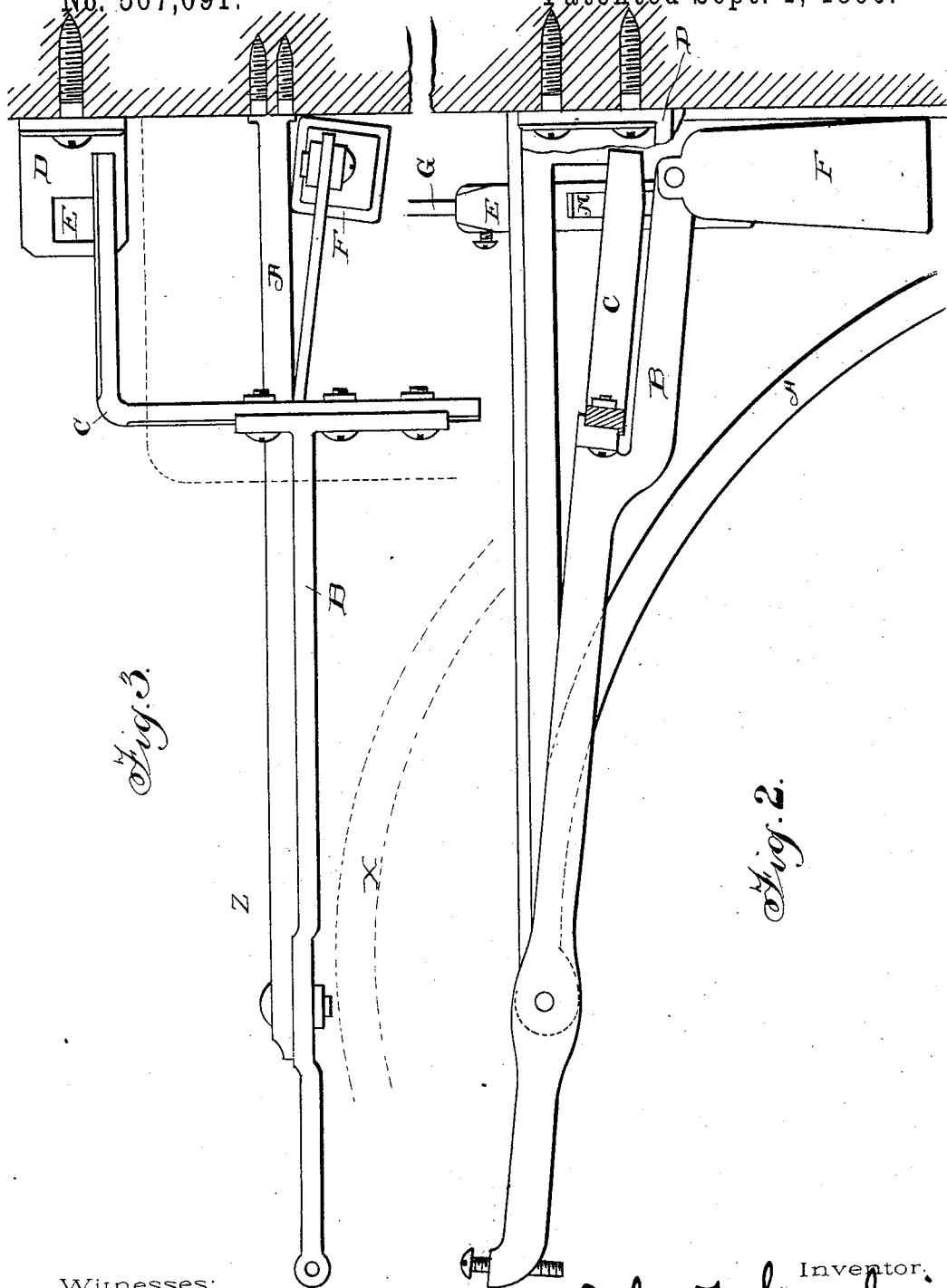
2 Sheets—Sheet 2.

J. F. GOODWIN.

AUTOMATIC SIPHON TANK CLOSET FLUSHER.

No. 567,091.

Patented Sept. 1, 1896.



Witnesses:

Wm F Doyle
J. A. Willson

Inventor

Inventor,
John F. Goodwin
By, H. B. Wilson.
Attorney,

By, H. B. Willson.
Attorney,

Attorney,

UNITED STATES PATENT OFFICE.

JOHN FRANCIS GOODWIN, OF SARNIA, CANADA, ASSIGNOR OF ONE-HALF
TO GEORGE ELLIOTT MORRISON, OF SAME PLACE.

AUTOMATIC SIPHON-TANK CLOSET-FLUSHER.

SPECIFICATION forming part of Letters Patent No. 567,091, dated September 1, 1896.

Application filed January 31, 1896. Serial No. 577,957. (No model.) Patented in Canada March 4, 1896, No. 51,541.

To all whom it may concern:

Be it known that I, JOHN FRANCIS GOODWIN, plumber, a British subject, residing at the town of Sarnia, in the county of Lambton, in the Province of Ontario, in the Dominion of Canada, have invented a new and useful Automatic Siphon-Tank Closet-Flusher, (for which I have obtained a patent in Canada, No. 51,541, dated March 4, 1896,) of which the following is a specification.

My invention is intended to do away with the pulling of chains, ropes, or other appliances to flush the basin of water-closets after using, that operation being performed automatically by the attachment, as hereinafter set forth. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of the attachment embodying my invention, showing the same attached to a water-closet. Fig. 2 is a side view of the lower attachment. Fig. 3 is a top plan view of the same. Fig. 4 is a rear view of the self-acting lock and appliances. Fig. 5 is a side view of the attachment at the water box or tank. Fig. 6 is a plan view of the self-acting lock.

My invention may be attached to any closet having the water tank or reservoir above the seat of the closet, and at any height, as the small rod G may be made long or short, as required. The attachment may be placed to right or left of the seat of the closet, as desired, the bar or arm C being made to work right or left. The bracket A is placed so that the hinged seat of the closet rests upon the head of the set-screw in the outer end of the bar or lever B. This set-screw may be raised or lowered, as required. When the person using the closet allows his weight to rest upon the seat of the closet, which rests upon the set-screw as aforesaid, the outer end of the bar or lever B is pressed downward, and, being bolted or riveted as a lever to the bracket A, when the outer end is pressed downward the rear end of the bar or lever B rises, raising at the same time the weight F, attached to the bar or lever B, and also raising at the same time the bent bar or arm C, attached to the bar B, until it rises above the bolt or dog

M in the lock-bar E, the bolt or dog M being held out by a spring, as plainly shown in Fig. 4. The bent bar or arm C is attached to the bar or lever B by two or more bolts, as shown in Fig. 3, there being a slot in bar C, so as to admit of same being moved sidewise and adjusted as required. As soon as the bent bar C rises above bolt or dog M of the lock-bar E the bolt or dog M springs out under bar C, thus locking bar C to the lock-bar E and rod G. When the person removes his weight from the seat, then the weight F, which may be made heavier or lighter, as required, (about six pounds,) pulls down the rear end of the bar B and bent bar C. As bent bar C is pulled down it presses downward the lock-bar E into the square opening in guide D, in which the lock-bar E works, as shown in Fig. 3, at same time pulling on rod G, which is attached at its upper end to the bar or lever I over the water-tank, as shown in Fig. 5. This lifts the plunger attached to end of bar I in water-tank and allows the water to escape and flush the basin. When the lock-bar E is pulled down into the square opening in guide D, which presses in the bolt or dog M, and as soon as the bent bar or arm C rests upon the guide D the lock-bar E escapes, because the bolt or dog M is pressed in by guide D, so as to pass bar or arm C, and the lock-bar E is pulled up by the rod G, by means of a small weight H, (about sixteen ounces,) attached to the bar or lever I in the tank, leaving arm C resting upon guide D, and the closet is again ready for use as soon as tank is filled.

The whole attachment is fastened by screws to the rear wall of the closet-room, close to the closet-bowl, (marked X in drawings,) as required and as shown in Fig. 3. In Fig. 1 L represents a guide for rod G, and K represents the water-tank, and in all the drawings Z represents the seat of the closet.

I make no claim to the mode in which the seat Z is attached to the back of the closet, nor to the water-tank K above the closet, as my invention may be attached to any closet having a water-tank, as I am aware that these are not new; but

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

The combination with the hinged seat Z, of the lever fulcrumed in the bracket A and provided with the adjustable bent arm C and weight F, the lock-bar E, the dog M pivoted
5 in a recess therein, the lever I, and rod G, having its lower end connected to the lock-bar E and the stationary guide D formed with

a vertical opening through which the lock-bar E reciprocates, substantially as and for the purpose set forth.

JOHN FRANCIS GOODWIN.

Witnesses:

JNO. R. LOGAN,

J. R. GRAHAM.