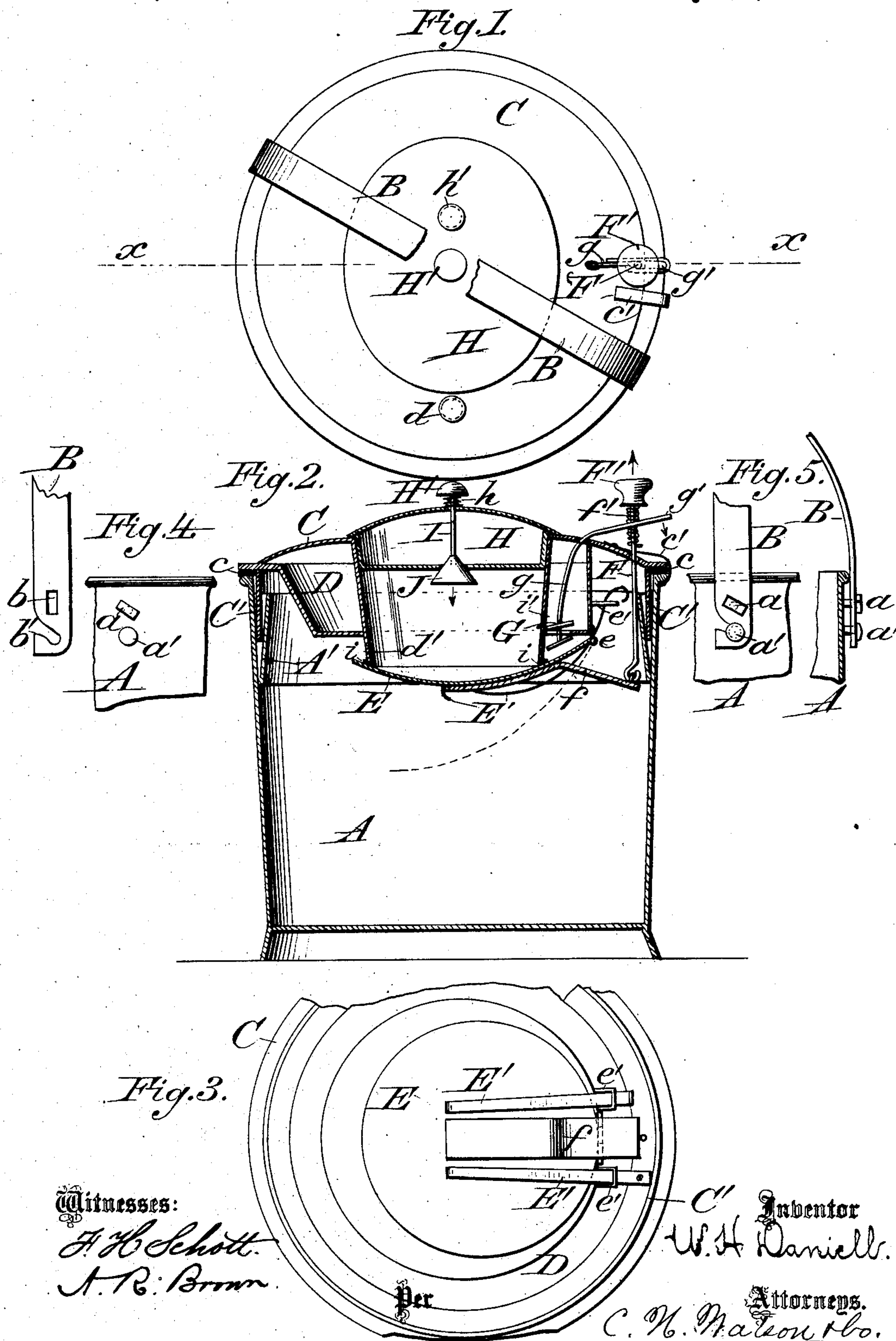


(No Model.)

W. H. DANIELL.
COMBINED CHAMBER PAIL AND COMMODE.

No. 244,863.

Patented July 26, 1881.



UNITED STATES PATENT OFFICE.

WILLIAM H. DANIELL, OF POTTSVILLE, PENNSYLVANIA.

COMBINED CHAMBER-PAIL AND COMMODO.

SPECIFICATION forming part of Letters Patent No. 244,863, dated July 26, 1881.

Application filed March 15, 1881. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. DANIELL, of Pottsville, in the county of Schuylkill and State of Pennsylvania, have invented certain new and useful Improvements in Combined Chamber-Pail and Commode; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

Figure 1 is a top view of the commode with cover attached. Fig. 2 is a section on the line *x x*, and Figs. 3, 4, and 5 are details.

The object of my invention is to provide a convenient chamber-pail and commode that will effectually prevent the escape of noxious odors and gases by means of simple and readily-operated devices for water-sealing the openings and introducing deodorizers or disinfectants within the pail, as hereinafter more fully described and claimed.

The pail A may be constructed of any suitable material, in any of the well-known forms. It is provided on each side with lugs or catches *a a'* for attachment of the handle B, which is detachably connected therewith by means of a slot, *b*, and hook *b'* at each end. In attaching the handle the slots *b* are passed over the lugs *a*, in such a manner that when the handle is brought into a vertical position to transport the pail the hooks *b'* will engage rigidly with the lower lugs, *a'*, and by thus preventing swinging of the pail will obviate the danger of spilling its contents.

Within the mouth of the pail is an inner rim or beveled flange, *A'*, between which and the outer wall of the pail is thus left an annular cavity or recess for receiving the rim or downward-projecting flange of the cover. By introducing water or other suitable packing into this recess before the cover is put in position the pail may be readily sealed.

The cover C is provided at its top with a central opening, which is surrounded by an annular water-chamber, D. It also has a downward-projecting flange, *C'*, that enters the recess between the flange *A'* and outer wall of the pail. A rubber packing, *c*, that rests

against the outer side of the flange *C'*, is interposed between the rim of the pail and its cover, and assists in securing a tight joint. This packing is held in place by the spring-catches *c'*, which also secure the cover in position, so that it is not readily detached, even when the pail is overturned.

In the top of the cover is an opening that communicates with the water-chamber D, and through which water is introduced thereto. When not in use it is closed by the screw-cap *d*. The inner wall of the chamber D projects downward to form a flange, *d'*, against which rests a pan or concave valve, E, which is hinged at *e*. This valve or pan is held in place by springs *E' E'*, that pass through loops or staples *e' e'* on the outer side of the water-chamber. The pressure of these springs against the under side of the valve holds it firmly against the lower edge of the flange *d'*, and thus cuts off communication between the interior of the pail and the open space above the valve. To the lug *f*, on one side of the valve, is attached a rod, F, that passes upward through a small opening in the top of the cover, where it terminates in a knob or handle, *F'*, by raising which the valve E may be thrown open.

At the bottom of the water-chamber D, on one side, is an opening, which is governed by a valve, G, that is operated by a bent lever, *g*, which passes through a small opening in the top of the water-chamber and connects, by a loop, *g'*, with the rod F, which is provided with a spiral spring, *f'*, that bears against the sides of the looped lever. It will thus be seen that when the rod F is raised to open the valve E the same motion, acting through the attached lever *g*, closes the valve G and prevents waste of the water contained in the chamber D. When the valve E is closed water escapes past the opened valve G and fills the upper concaved portion of the valve or pan E, which is pressed up against the flange *d'*. The opening is thus effectually water-sealed, so as to prevent the escape of gases, and this effect may be increased, if desired, by attaching a suitable packing-ring, *i*, at the lower edge of the flange *d'*.

The opening in the top of the cover C is closed by a cover or box, H, that forms a receptacle for any suitable disinfectant. This

box or receptacle is perforated at the top and bottom for the passage of a rod, I, which carries at its lower end a conical valve, J, that rests beneath the box and governs the lower opening.

At the upper end of the rod is a handle, H', between which and the top of the box is a spring, h, that is coiled around the rod I. By means of this spring the valve J is made to close the opening at the bottom of the box, and thus prevent the escape of the disinfectant or deodorizing material, except when the handle H' is pushed down. An opening in the top of the box, closed by a screw-cap, h', is provided for the purpose of introducing the disinfectant when required.

By means of the devices for water-sealing and disinfecting the contents of the pail or commode it will be seen that the noxious gases and vapors incident to the use of such vessels are readily controlled and their escape, to a great extent, prevented. The flow of water in contact with the upper surface of the pan or valve E keeps the latter always clean, and, if desired, a greater quantity of water may be placed thereon, either directly through the central opening in the cover or through small openings i', that may be made in the inner side of the water-chamber D.

Having thus described my invention, what I

claim as new, and desire to secure by Letters Patent, is—

1. The chamber-pail A, having lugs *a a'*, in combination with detachable handle B, provided with slots *b* and hooks *b'*, substantially as shown and described. 35

2. The combination, with a chamber-pail, of the cover C, having water-chamber D, and a central disinfectant-box, H, provided with spring-valve J, substantially as set forth. 40

3. The combination, with the cover C, having water-chamber D and flange *d'*, of the hinged pan or valve E, springs *E' E'*, spring-rod F, bent lever *g*, and valve G, substantially as and for the purpose specified. 45

4. In a chamber-pail and commode, the combination of the pail A, having inner beveled flange or rim, A', cover C, having flange C', packing *c*, and spring-catches *c'*, water-chamber D, having screw-cap *d* and flange *d'*, spring-valve E, rod F, bent lever *g*, valve G, and disinfectant-box H, having spring-valve J, substantially as and for the purpose specified. 50

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses. 55

WILLIAM H. DANIELL.

Witnesses:

ADOLPH PRINCE,
THOMAS FOSTER.