

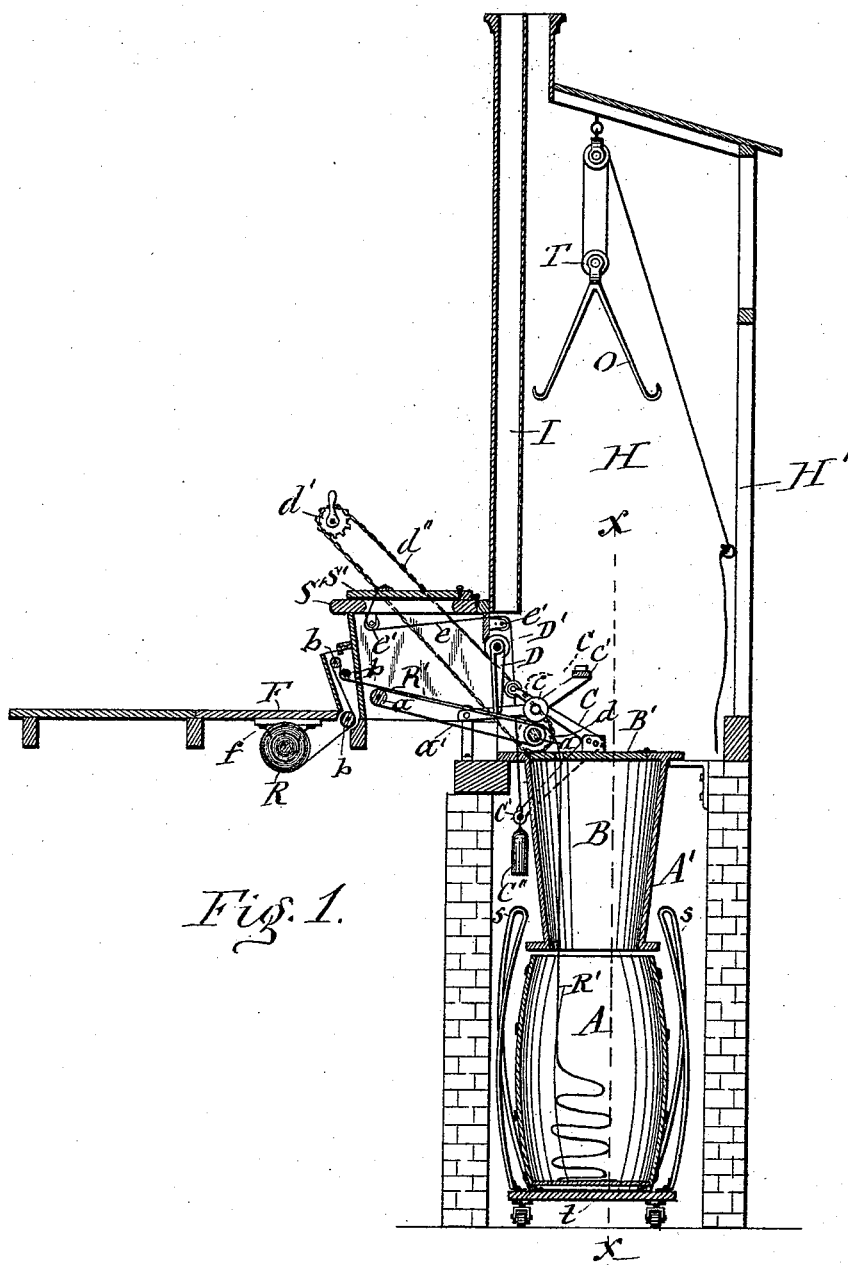
(No Model.)

2 Sheets—Sheet 1.

H. H. KENDRICK.  
SANITARY CLOSET.

No. 525,346.

Patented Sept. 4, 1894.



WITNESSES:

*C. L. Bendixson*  
*B. Laas.*

INVENTOR:

*Hiiland H. Kendrick*  
*By C. Laas*  
his ATTORNEY

(No Model.)

2 Sheets—Sheet 2.

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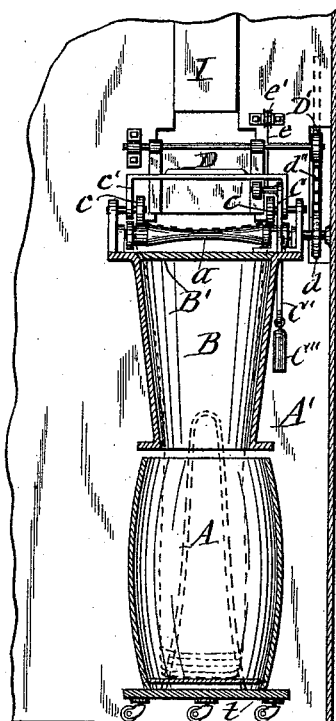


Fig. 2

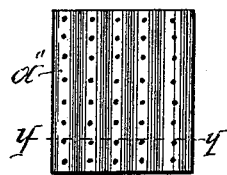


Fig. 4

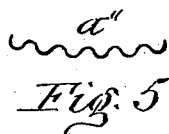


Fig. 5

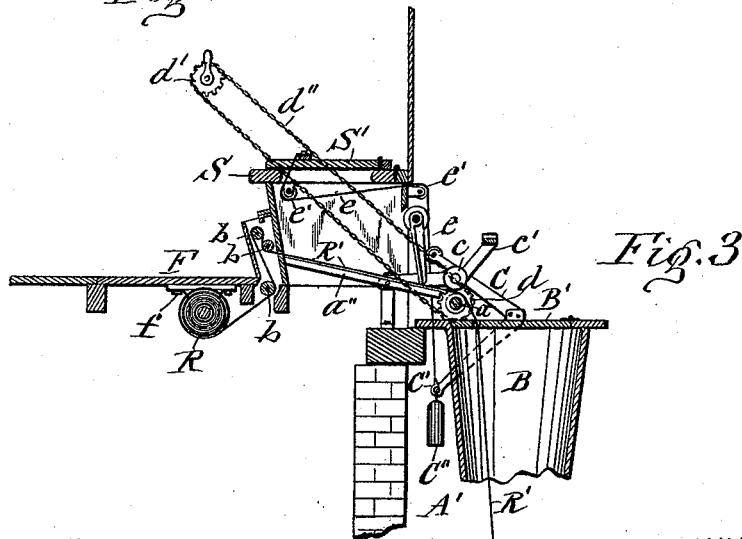


Fig. 3

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# UNITED STATES PATENT OFFICE.

HILAND H. KENDRICK, OF FULTON, NEW YORK.

## SANITARY CLOSET.

SPECIFICATION forming part of Letters Patent No. 525,346, dated September 4, 1894.

Application filed October 13, 1893. Serial No. 488,083. (No model.)

### *To all whom it may concern:*

Be it known that I, HILAND H. KENDRICK, of Fulton, in the county of Oswego, in the State of New York, have invented new and useful Improvements in Sanitary Closets, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

This invention consists in the novel construction of a water closet designed more particularly for places which are deprived of the necessary water supply and sewers to insure a sanitary condition of the closet.

The invention is fully illustrated in the annexed drawings, in which—

Figure 1 is a vertical transverse section of a water closet embodying my invention. Fig. 2 is a transverse section on line —X—X— in Fig. 1, the conveying sheet being indicated by dotted lines. Fig. 3 is a sectional view of a modification of my invention, and Figs. 4 and 5 are respectively a plan and a sectional view on line 7, 7, of the corrugated plate employed for supporting the conveying sheet as shown in the aforesaid modification.

—S— represents the seat which has the cover —S'— hinged thereto in the usual manner.

—A'— designates a vault which is beneath the back of the seat, and completely inclosed either by a part of the main building or by an addition built on the main building as shown at —H— in Fig. 1 of the drawings. Said addition being provided with a ventiduct or air flue —I— to ventilate the water closet and vault.

—H— denotes a suitable receptacle preferably one of the so-called sanitary barrels, which can be removed and hermetically sealed. To facilitate the removal of said receptacle I mount the same on a truck —t— riding on the bottom of the vault. From the roof of the house or addition —H— I suspend a block and tackle —T—, to which I connect a suitable grip —O— for taking hold of the straps —s—s— attached to the truck —t—. By means of said block and tackle the truck with the barrel or receptacle —A— can be lifted out of the vault and removed through a door —H'— in the house —H—.

—B— represents a chute which is supported in the vault back of the seat —S— and directly over the receptacle —A— placed in its requisite position. The top of the chute is provided with a movable cover —B'— preferably hinged at the rear or farthest side from the seat —S—. To this cover are firmly secured two arms —C— and —C'— both of which extend toward the side adjacent to the seat. The arm —C'— carries a weight —C''— which serves to draw down the arm with sufficient force to effectually close the door. This arm is connected with the cover —S'— of the seat —S— at one side of the front portion thereof by a cord or light chain —e— running on sheaves —e'—e'—. Said connection causes the cover —B'— to be opened simultaneously with the raising of the cover —S'— of the seat. Transversely under the seat —S—, I place a conveyer leading to the top of the chute —B—. For this conveyer I employ a web of paper or other suitable material, preferably disinfectant paper of the requisite tensile strength, and wound on a roll —R— pivoted to brackets —f— attached to the underside of a removable section —F— of the floor in front of the seat —S—. Said removable section affords access to the roll —R— for renewing the same when required. The free end portion —R'— of the paper passes around guide-rollers —b—b—b— and over a horizontal roller —a— pivoted to brackets attached to the top of the chute —B—. The paper passes from said roller down through the chute —B— and into the receptacle —A—. For moving the paper in the aforesaid direction, I attach to the end of the roller —a— a sprocket-wheel —d—, and pivot another sprocket-wheel —d'— to the wall of the closet in proximity to the seat, which wheels are connected by a sprocket-chain —d''—. The wheel —d'— is provided with a crank or suitable handle by which to turn it. The rotation of this wheel imparts a corresponding motion to roller —a— which draws along the web of paper —R'—. In order to obtain sufficient hold of the roller on the paper, I place over said roller the pressure-rollers —c—c— which are mounted on the arms —c'— pivoted to suitable stationary supports and weighted to cause the pressure-rollers to

bear with sufficient force on the paper to obtain the necessary frictional hold on the roller —a—.

To support that portion of the web of paper which is directly beneath the seat —S—, I employ an apron under the web —R'— which apron may consist of a sheet of zinc or other suitable metal inclined toward the roller —a— as represented at —a''— in Fig. 3 of the drawings, and corrugated and perforated as illustrated in Figs. 4 and 5 of the drawings. But I prefer to employ an endless apron —a'— of either oil-cloth or rubber or other suitable flexible material mounted on the roller —a— and a companion roller —a— likewise below the plane of the seat and near the front thereof as shown in Fig. 1 of the drawings.

To confine the deposited matter to the central portion of the web —R'—, I concave the apron transversely and to effect this on the endless apron —a'— I concave the rollers —a— —a— longitudinally.

—D— denotes a door which is suspended from pivotal supports over the apron immediately back of the seat —S—. Said door when closed, prevents gas and odor from passing from the vault —A'— to the space beneath the seat. The arm —C— which is attached to the cover —B'— of the chute, bears with its free end on the door —D— and effectually closes the same when the cover —B'— is closed as shown in Fig. 1 of the drawings, and in raising of the cover —S'— of the seat, the cover —B'— is raised by the cord or chain —e— connecting the cover —S'— with the arm —C'— as before described. In raising or opening the cover of the chute the arm —C— is caused to release the door —D—. To the door —D— at the axis thereof is fastened a wheel —D'— which bears on the sprocket-chain —d''— with sufficient force to be rotated by said chain when in motion, and inasmuch as said chain is operated for moving the conveying sheet —R'—, the door —D— is opened at the same time. In closing the cover —S'— of the seat the cover —B'— of the chute is allowed to fall into its closed position and in this operation the arm —C— pushes the door —D— to its closed position.

What I claim as my invention is—

1. In combination with the seat and vault or receptacle, a conveying sheet transversely under the seat and movable to the vault or receptacle, a supporting apron under said sheet and inclined toward the vault or receptacle, and a door suspended immediately over the conveying sheet in proximity to the lower end of the apron as set forth.

2. In combination with the seat and recep-

tacle beneath and back of said seat, the rollers —a—a—, apron —a'—, paper roll —r—, having its free end portion carried on the apron, guide-rollers —b—b—b— and pressing-rollers —c—c— substantially as described and shown.

3. In combination with the seat and its hinged cover —S'— the receptacle —A—, chute —B—, provided with a movable cover, a conveyer leading from under the seat to said chute, and mechanism connecting the seat-cover with the cover of the chute to open the latter simultaneously with the raising of the seat-cover as set forth.

4. In combination with the seat and vault, the parallel rollers —a—a— under the seat, the endless apron —a'— carried on said rollers toward the vault, the sprocket-wheel —d'— attached to one of said rollers, the manually operated sprocket-wheel in proximity to the seat, the chain —d''— connecting said wheels, the door —D— suspended over the apron, and the wheel —D'— fixed to the axis of said door and receiving motion from the aforesaid chain to open the door simultaneously with the movement of the aforesaid endless apron as set forth.

5. In combination with the hinged seat-cover —S'—, and receptacle —A—, the chute —B— provided with the hinged cover —B'—, the door —D—, arm —C— attached to the said cover and bearing on the door, and mechanism connecting the seat-cover with the cover of the chute as set forth.

6. In combination with the hinged seat-cover —S'— and vault —A'—, the receptacle —A— in said vault, the chute —B— leading to said receptacle, the cover —B'— hinged to the chute, rollers —a—a— under the seat, apron —a'— carried on said rollers, a sprocket-wheel attached to one of said rollers, a manually operated sprocket-wheel in proximity to the seat, a chain connecting said wheels, the door —D— suspended over the apron, the wheel —D'—, fixed to the axis of said door and actuated by the chain, the arms —C— and —C'— attached to the cover B', one of said arms being adapted to press the door —D— to its closed position, and the other arm being weighted and connected by a cord or chain —c— to the seat-cover as and for the purpose set forth.

In testimony whereof I have hereunto signed my name this 27th day of September, 1893.

HILAND H. KENDRICK. [L. s.]

Witnesses:

MELVIN F. STEPHENS,

W. F. WALLACE.