

No. 649,239.

Patented May 8, 1900.

W. A. GALPIN.  
URINAL.

(Application filed Nov. 29, 1899.)

(No Model.)

Fig. 1.

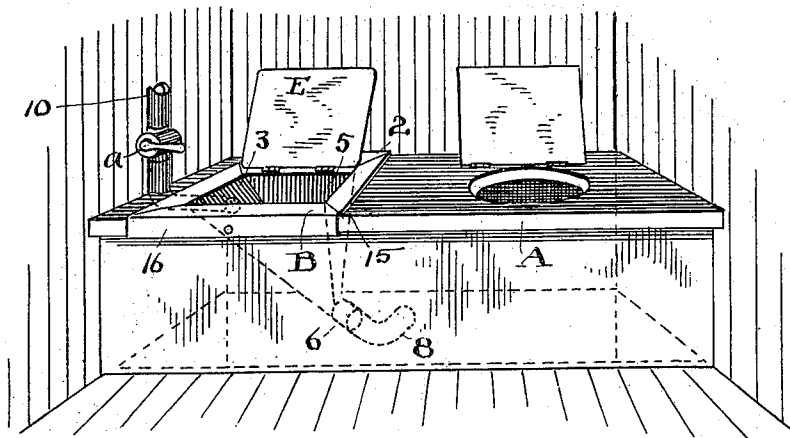


Fig. 2.

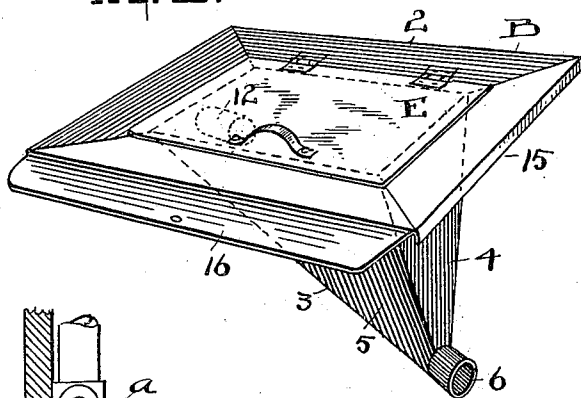


Fig. 3.

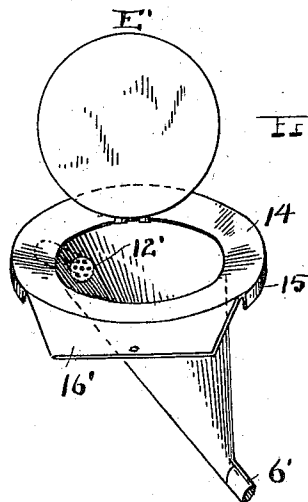
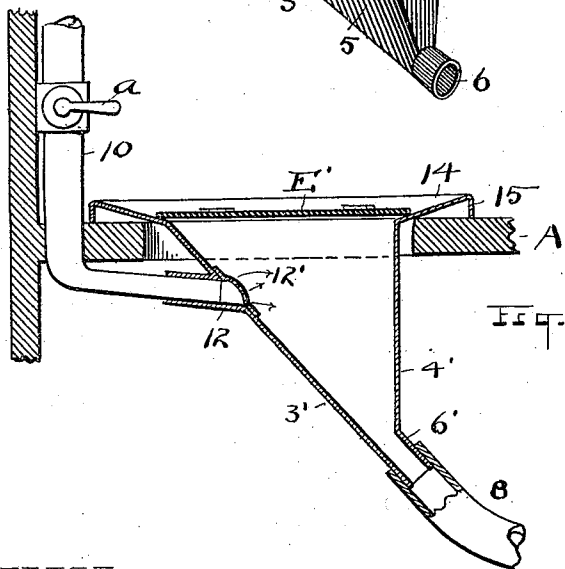


Fig. 4.



ATTEST

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# UNITED STATES PATENT OFFICE.

WILLIAM ADAMS GALPIN, OF CLEVELAND, OHIO.

## URINAL.

SPECIFICATION forming part of Letters Patent No. 649,239, dated May 8, 1900.

Application filed November 29, 1899. Serial No. 738,665. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM ADAMS GALPIN, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Urinals; and I do 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.

My invention relates to urinals; and the invention consists in a device adapted especially to be used in connection with outhouses or outdoor closets having no water or other cleansing connections and where a plain board without any attachments on its under side provides the seat. These devices, therefore, are designed to be placed upon and adapted to one or more of the several seats of the ordinary outdoor closet, and though the device is a wholly-separate article having no permanent connection or fixed attachment therewith and may be lifted off and transferred to another seat or elsewhere at pleasure, it yet is intended to be practically permanent as to the place of its use when once put in position. Hence, also, it has features of adaptation for different seats or seats differing more or less in breadth at their front, whereby it is adjusted to and held in place on any given seat, all substantially as shown and described, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a perspective elevation of a common closet-box and one of my new devices adapted to one of the seats or openings therein. Fig. 2 is a perspective elevation of the device shown in Fig. 1 with the cover closed down. Fig. 3 is a perspective elevation of a modification of the device, showing circular instead of angular outlines; and Fig. 4 is a sectional elevation thereof in working position.

A represents what we may assume is the box of an ordinary outdoor closet or outhouse, having two seats or openings in this instance, though it may have more, and one of which is occupied by the device B. This device is fashioned in one of its preferred forms substantially as shown in Fig. 2, and in all cases so as to provide the most ample accommodations in the limited space usually found in

such places, as well as protection against moistening the seat or woodwork about it by overflow or otherwise and to promote cleanliness in the article itself and the rising of foul odors from below either through or round about it.

In the forms Figs. 1 and 2, which are alike, I employ a rectangular outline both of the top portion 2 and of the body below—that is, the body has four flat downwardly-converging sides 3 4 5, running to an outlet extension or discharge 6. The said sides are not all alike, because I have purposely constructed the body with not only a depth relatively as shown from the top 2 to the discharge 6, so that when used the water will not splash up from the said walls onto the top surfaces, but it is desirable always to discharge toward the center of the pit or vault rather than toward its walls if an inside discharge be allowed, and hence the outer wall or side 3 is the longer one and set at a decided inward inclination, while the opposite wall 4 is the shorter side, set substantially vertically, and the side walls proper, 5, are adapted to the other two. This brings the side 4 into a vertical plane, while the others incline to it, with the main inclination in the side 3. This also gets the body from possible obstructions at or about the wall or framework of the end of the closet. The body is thus made a closed portion all around, with a sufficient outlet at its bottom for all practical purposes, and the said body may be porcelain-lined or otherwise surface-finished, as may be preferred, and, while the body and top may for the cheapest purposes be constructed, say, of galvanized iron, they may be of cast-iron or of earthen material, and the fashion of the body and its top may be round or circular, as seen in Figs. 3 and 4, or of any equivalent form. If angular, as in Fig. 2, and of sheet metal, scraps can be used for the body. In all cases, however, the discharge 6, as here shown, is designed not for draining into the vault, though this may be done, but more generally for a pipe connection 8 to the outside, where the said pipe is usually grounded for discharge, and no objectionable experiences come from it. This is especially desirable where perhaps there are no vaults and a removable box or receptacle is used. In such cases the dryer the box is kept the better for

all reasons, and my invention is especially adapted to promote cleanliness and healthfulness in the closet.

In case it be desirable to flush the device from the roof or other source of water the same can be done through pipe 10, which enters the body of the device at or near its top, with a water-tight joint onto the neck 12. As here shown, the pipe 10 is of such size as to serve also as a reservoir for water, and a cock *a* controls the flow of water therefrom. I might use a tank and take water from it; but the pipe 10 serves my purpose.

The tops 2 and 14 of both forms of the device here shown not only extend laterally some distance all around, but are inclined toward the center and have flanges 15 along their outer edges, which rest closely down upon the seat-board A and close up the space all around as a guard against odors from beneath escaping that way. The inclined top surface 2 is also supplemented at its front with an apron 16, adapted to be bent down over the front edge of the top or seat board, and thus not only serves to form a protection or shield to said edge, but also for keeping the device in its right place or relation on the closet, and when the apron is flexible, as in the use of galvanized iron, it can be bent according to the width of board A in front of the opening in which the device is placed, and this is done when the device is fitted to the closet and according to the conditions found in each case.

At what may here be treated as the rear of the device I show a splash-board and cover E, hinged or otherwise supported on the inner edge of the top A and detachable, if preferred.

The flanged edge of the border B affords ventilation between the border and the seat-board, as well as a support for the device, and such ventilation is needed to protect the parts and prevent moisture from creeping in and gathering in said space.

At certain seasons of the year—say in the winter season—the water-pipe 10 can be drained of its contents and the valve left open to provide a ventilating-outlet for the vault.

The neck 12 is provided at its inner end with a perforated spraying-plate 12', soldered or otherwise fastened to the wall 3. This plate sprays and spreads the water and flushes all the surfaces of the body.

What I claim is—

1. The device described, adapted to be removably placed on a plain outdoor-closet seat, the same constructed wholly of sheet metal and having an inwardly-inclined bordered top and a right-angled flange 15 about its rear and sides to rest on the seat and with downwardly-converging sides having an apron at its front to overlap the front edge of the seat and a downwardly-converging body portion, substantially as described.

2. A sheet-metal urinal for outhouses adapted to be placed over a closet plain seat and having an inwardly-inclined border with a downflange 15 about its outer side and rear edges, and an apron at its front extending beyond the side flanges and adapted to be bent over the edge of the seat, and a body open at its top centrally of said border and tapered toward its lowest extremity and having its discharge wholly at one side of the top middle part of the device, substantially as described.

3. The outhouse and its seat, in combination with a urinal thereon having an inwardly and downwardly inclined border about its top provided with a right-angled supporting-flange at its edge resting on said seat and an apron extending forward over the front edge of the said seat, and the body of the urinal having downwardly-converging sides and tapered to carry their lower extremities together wholly at one side of the closet-opening, and a drain-pipe connected with the extremity of the body and having its discharge outside said outhouse, substantially as described.

Witness my hand to the foregoing specification this 27th day of November, 1899.

WILLIAM ADAMS GALPIN.

Witnesses:

H. E. MUDRA,  
R. B. MOSER.