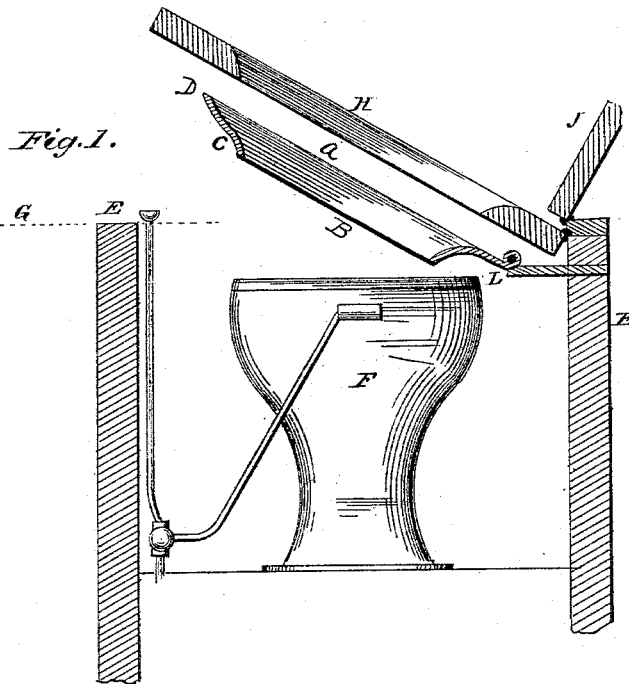


T. G. KNIGHT.
Urinal Safes for Water-Closets.

No. 210,786.

Patented Dec. 10, 1878



Witnesses
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UNITED STATES PATENT OFFICE.

THOMAS G. KNIGHT, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN URINAL SAFES FOR WATER-CLOSETS.

Specification forming part of Letters Patent No. **210,786**, dated December 10, 1878; application filed June 14, 1878.

To all whom it may concern:

Be it known that I, THOMAS G. KNIGHT, of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Urine-Safes for the Seat-Openings of Water-Closets; and I do hereby declare that the following is a full, clear, and exact description thereof 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.

In many dwellings the water-closet is also used as a urinal by simply raising the wooden seat, in which case the urine is often voided upon the floor within the wooden casing, creating an offensive odor and filthy condition.

There are several devices which partly obviate this difficulty, both in the shape of earthenware and metallic plates; but they are so arranged and have so many objectionable features that they are not in general use. In all cases of which I have any knowledge they are either fastened directly to the wood-work by being set in the casing when put up by the carpenter, or else they are cemented to the top rim of the bowl of the water-closet, or made a part of the same, in either case being immovable; and if the pan, lever, axle, or valve of the water-closet gets out of order, before access can be had to these parts for repairing, it is necessary to tear up the wooden casing and remove the urine-safe; or if the safe be fastened to the bowl, or made a part of the same, it is not only necessary to remove the wood-work, but the bowl of the water-closet also. This proves very expensive, destroys the wood-work, and the bowl or hopper is often broken in removing, it being cemented to the water-closet.

Urinal safes of this description have other objectionable features—viz., as they are secured directly to the bowl of the water-closet, and form a support for the wooden seat, if the wooden seat is allowed to fall, as it often does, through carelessness or accident, either the bowl or the urinal safe is broken by the weight of the blow.

As urinal safes have heretofore been arranged, house-owners were prevented from

having them put on their water-closets unless it were done when the house was built, because it necessitated a complete alteration of the wood-work casing.

The purpose of my invention is to avoid all these and other objections by providing a detachable or removable urine-safe, which will fit within the wood-work of any and all closets, which cannot be broken by the fall of the wooden seat, and which can be manufactured cheaper than anything of the kind now in the market, and which will leave the working parts of the water-closet free of access at all times for repairs.

The drawing represents a side view, partly in section, of urinal safe-seat and wood casing.

a is the removable urinal safe. It is made of one piece of metal, and has a central opening, *B*, either round or oval, to correspond with the form of the hopper or water-closet upon which it is to be used. The flaring flange *C* passes downward into the hopper, and acts as a funnel to conduct the urine into the hopper. The upper surface of the safe may be made more or less dishing, and the outer rim, *D*, may or may not have an upward flange. When the safe is to be used on a bowl already set I prefer to make it without any up-turned flange on the outer edge, so that the whole safe will rest below the level of the front panel of the wood casing, and consequently if the wooden seat falls it strikes the front casing, and thus avoids breaking the safe or the hopper.

The safe is made a trifle smaller than the ordinary wooden seat of a water-closet, and, of course, can be passed through the opening in the wood-work left for the seat, and the urine-safe may consequently be placed within the wood-work of any hopper or water-closet without alteration of the casing.

J is the wooden cover of the seat; *H*, the wooden seat.

The urinal safe is fastened to an adjustable stop-hinge, *L*, by a removable pin, which allows the safe to be detached when necessary. This removable urinal safe may be made of sheet or cast metal, nickled, tinned, galvanized, enameled, or painted.

Having thus fully described my invention,

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

A urinal safe smaller than the opening in the wood casing, resting on the hopper, and hinged to a plate attached to the wood-work of the water-closet.

In testimony that I claim the foregoing as

my own I affix my signature in presence of two witnesses.

THOMAS G. KNIGHT.

Witnesses:

T. F. ROSEGRANT,
JOHN A. MURRAY.