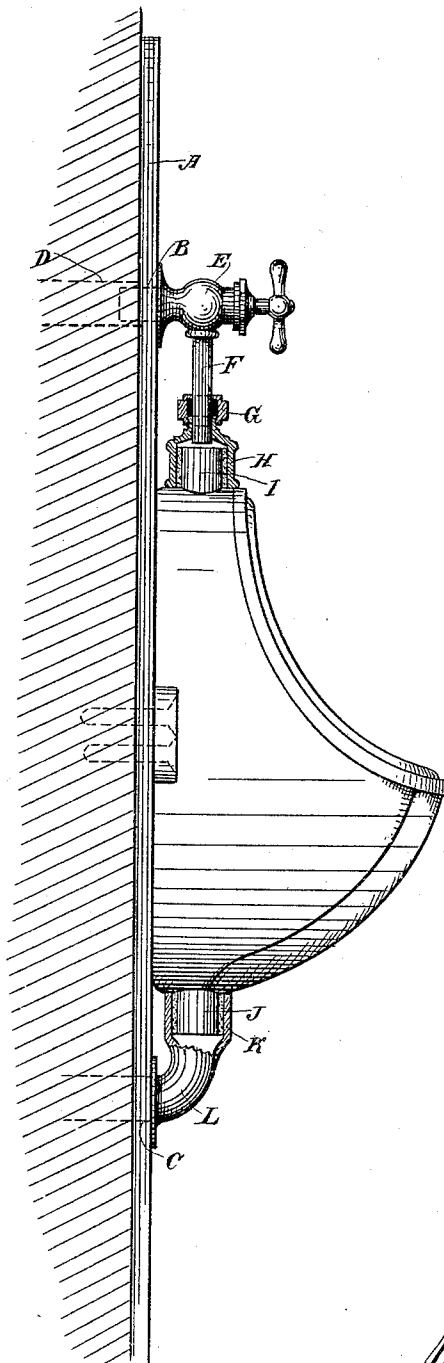


(No Model.)

J. SHEPARD.
EXTENSION JOINT FOR URINALS.

No. 465,566.

Patented Dec. 22, 1891.



Witnesses,
G. H. Anse
H. F. Aschbeck

Inventor
James Shepard
By Dewey & Co.
att'y

UNITED STATES PATENT OFFICE.

JAMES SHEPARD, OF SAN FRANCISCO, CALIFORNIA, ASSIGNOR TO SHEPARD BROTHERS, OF SAME PLACE.

EXTENSION-JOINT FOR URINALS.

SPECIFICATION forming part of Letters Patent No. 465,566, dated December 22, 1891.

Application filed March 30, 1891. Serial No. 387,033. (No model.)

To all whom it may concern:

Be it known that I, JAMES SHEPARD, a citizen of the United States, residing in the city and county of San Francisco, State of California, have invented an Improvement in Extension Joints for Urinal-Cocks; and I hereby declare the following to be a full, clear, and exact description of the same.

My invention relates to certain improvements in the connections for urinals; and it consists in the peculiar construction and combination of devices which I shall hereinafter fully describe and claim.

Referring to the accompanying drawing for a more complete explanation of my invention, the figure is a side view of my device.

In the usual construction of these fixtures a supply-pipe is connected with the upper end of the bowl, which is usually made of earthenware, and the discharge-pipe is connected with the lower end, these pipes having sockets, into which extensions from the upper and lower end of the bowl enter, and are fixed and made tight by means of any suitable cement. Whenever it is necessary to remove the bowl or make repairs, the couplings and connections of these pipes have to be torn out, and there is considerable trouble, time, and expense in removing and replacing them, which my invention is designed to overcome.

A is the vertical back, which is made of heavy glass or other suitable material, and has openings at B and C, through which the supply and discharge pipes respectively pass. The supply-pipe D has a cock E, which may be opened and closed at will. From this cock the straight tube F extends downward, passing through a stuffing-box G, which is packed so as to make a tight joint, but through which the tube may be made to slide whenever desired.

H is an enlarged cap, upon the upper end of which the stuffing-box is fitted. This cap receives the upper nozzle or extension I of the bowl, which is suitably fixed and cemented therein to make a tight joint, and the lower end of the pipe F enters the upper end of this extension, so that water may flow through the pipe and be delivered directly into the bowl. The lower part of the bowl has a similar extension J, which fits into an enlarged cap or receiver K, and is similarly cemented to make

a tight joint. From this the discharge-pipe L leads outward through the passage C and the back A. Behind this back these pipes are connected by the usual couplings with the supply and discharge pipes, and by means of my invention these parts may all be fixed permanently in place, and it will not be necessary to remove them for the purpose of removing the bowl, there being no especial pressure at the lower extension J, but only the natural flow of water through said extension and its pipe L. Consequently it is not necessary to use a hard-setting cement which may be difficult to remove. Now when the sides of the bowl are released from their fastenings to the wall, it will be manifest that a slight twisting of the bowl from side to side will loosen the joint, when the bowl is then lifted up, the stuffing-box G at the top sliding upon the tube F far enough to allow the bowl to be lifted clear of its lower connection, after which it is slipped down and off of the tube F, being thus easily removed without in any way disturbing the other connections. The bowl is replaced by again slipping the tube F into the stuffing-box G and sliding the latter up on the tube until the lower extension of the bowl can be introduced into the socket of the discharge-pipe, where it is fixed, and the upper socket is then moved down to connect with the upper extension of the bowl, the stuffing-box sliding upon the tube F, as before described, and the whole is thus easily replaced and made tight.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a urinal, a vertically-movable bowl having extensions at the upper and lower end and fixed sockets into which said extensions fit and are secured, a fixed discharge-pipe connected with the lower socket and a fixed water-supply pipe and cock connected with the upper one, a stuffing-box connected with the upper extension or socket of the bowl, and a stationary tube connected with the supply-cock and extending into the stuffing-box, whereby the latter slides upon the tube, so that the bowl may be first lifted from the lower socket and then drawn downward and released from the upper tube, substantially as herein described.

2. In a urinal, the slidable bowl having tubular extensions at its upper and lower end, a cap fixed upon the upper extension and provided with a stuffing-box, a fixed water-supply pipe having a controlling-cock and a vertical tube F, extending through said stuffing-box and forming a guide upon which the stuffing-box slides when the bowl is raised, and a fixed socket for the lower extension of the bowl, substantially as herein described. 10

In witness whereof I have hereunto set my hand.

JAMES SHEPARD.

Witnesses:

S. H. NOURSE,

J. A. BAYLESS.