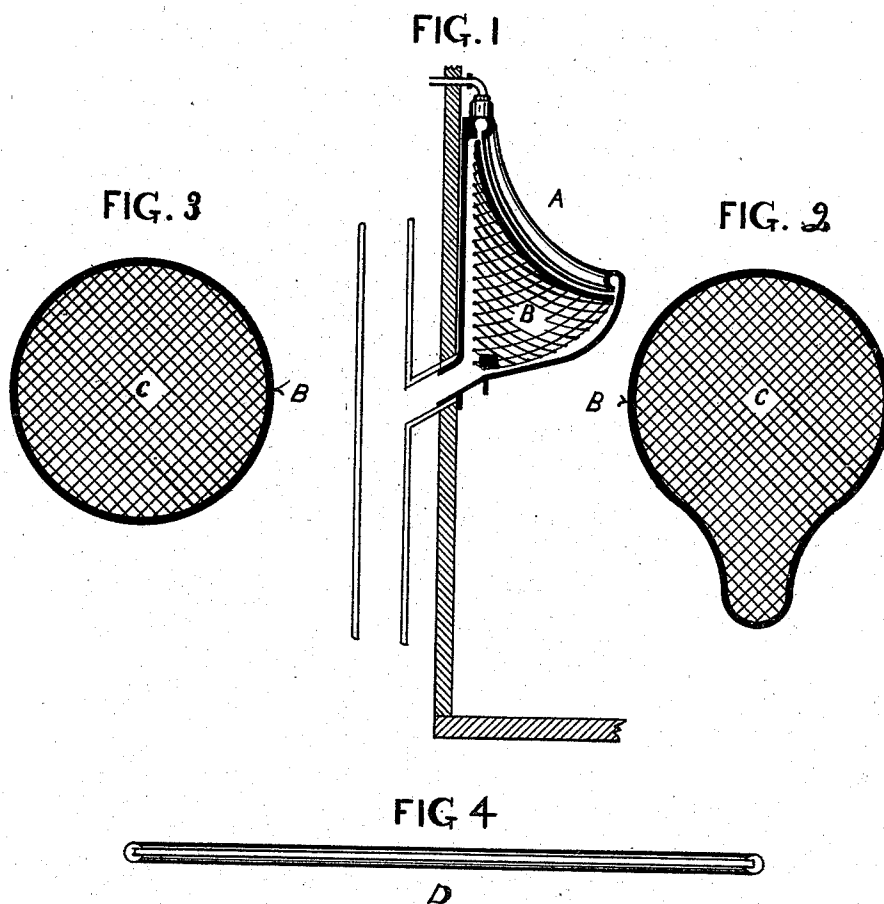


(No Model.)

E. L. MAXWELL & H. W. GORMAN.
GUARD OR SCREEN FOR URINALS.

No. 571,275.

Patented Nov. 10, 1896.



WITNESSES:

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UNITED STATES PATENT OFFICE.

EDMUND LONG MAXWELL AND HENRY WILLIAM GORMAN, OF LOS ANGELES, CALIFORNIA.

GUARD OR SCREEN FOR URINALS.

SPECIFICATION forming part of Letters Patent No. 571,275, dated November 10, 1896.

Application filed June 2, 1896. Serial No. 593,988. (No model.)

To all whom it may concern:

Be it known that we, EDMUND LONG MAXWELL and HENRY WILLIAM GORMAN, citizens of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented a certain new and useful Guard or Screen for Urinals, of which the following is a full, clear, and exact specification, reference being had to the accompanying drawings.

Our invention relates to improvements in urinal-guards, and the object of our invention is to provide a guard for urinals that will form a receptacle for a disinfectant that will allow the placing of a disinfectant in such a position that it will not retard the passage of water from a urinal, as in a case where the disinfectant is placed in the bottom of the bowl.

By the use of our guard anything that would choke up the urinal or any of its pipe connections cannot pass through the guard, nor is it held in a position within the urinal-bowl where it could collect filth. Thus it would save a great deal in the expense of repairs and at the same time very much improve a urinal so far as cleanliness is concerned.

The advantage of this guard must be at once apparent to all those who have given any attention whatever to the subject of urinals. It is a well-known fact that nothing in the whole line of plumbing is so difficult to handle as this matter of urinals, as no amount of water, no matter how applied, will keep a line of urinals in any public building sweet and clean if some provision is not made to prevent the accumulation of matter that will retard the free exit of all the water that is put into them.

From a sanitary standpoint alone this device should be universally adopted, as it will absolutely prevent the accumulation of filth and germ-breeding matter.

We attain this object by the mechanism illustrated in the accompanying drawings, in which—

Figure I is a vertical section of a urinal and its pipe connections, showing our guard in the proper position within the bowl. Fig. II is a plan view of our urinal-guard complete. Fig. III is a plan view, the same as Fig. II, ex-

cepting that in this view the urinal-guard is made in a different shape. Fig. IV is an enlarged view of a section of the ring or band employed for binding the edges of the screen. Similar letters refer to similar parts throughout the several views.

In the drawings, A represents the urinal; B, our urinal-guard; C, the screen; D, the blue-lead binding employed for keeping the screen in the desired shape.

In order to make the device fit the different sizes and styles of urinals, it is necessary to make them different shapes, and to illustrate that this can be done without any change in the principle employed we illustrate in Figs. II and III two different-shaped guards, both made in the same manner.

In the construction of this device the wire-gauze, forming a screen, is so shaped that it will provide a receptacle for a disinfectant directly over the outlet of the urinal and hold the said disinfectant a short distance above the said outlet, so that it will cause no obstruction to the outlet of water, and so that water can freely flow upon all sides of it.

The guard prevents anything from getting into the pipe connections that would have a tendency to stop them up. Consequently it will save much inconvenience and expense.

We employ blue lead for the binding of the guard on account of its peculiar features, viz: The guard can be easily bent to fit the peculiar shape of the urinal, and when it is once fitted it will retain its shape. The wire-gauze can be securely fastened within the blue-lead binding by putting a pressure upon the said binding sufficient to close up the space in the binding into which the edges of the gauze are introduced.

Now, having fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. A guard or screen for urinals constructed as herein described, the same comprising a solid blue-lead frame conforming to the urinal, the said frame being provided with a groove in its inner edge, into which the wire-netting is placed and fastened by closing the said groove after the wire-netting has been introduced, substantially as and for the purpose set forth and described.

2. In a urinal-guard the combination set forth of a solid blue-lead frame with a groove in its inner edge into which a wire gauze or netting is fastened by closing the said groove upon the edges of the said gauze or netting, the said netting so shaped that it will hold a disinfectant directly over the outlet of the urinal, substantially as described and for the purpose as specified.

3. In a urinal-guard, the combination with a urinal of a frame conforming to a urinal constructed with a groove extending the full circumference of the said frame with a wire gauze or netting fastened within the said frame by closing the said groove upon the edges of the said netting, and the said netting so shaped that it will hold a disinfectant away from the bottom of the urinal-bowl, and also prevent the passage of any substance larger than the meshes within the said gauze to within the pipe leading away from the urinal, substantially as, and for the purpose as specified.

4. The combination with a urinal of a grooved frame adapted to be received within the bowl, and a wire gauze or netting fastened within the said frame, by introducing the edges of the said gauze or netting within the said groove, and clamping the said gauze or netting within the frame, by closing the said groove upon the edges of the netting, substantially as set forth, and for the purpose specified.

5. A urinal-guard consisting of a blue-lead frame, provided with a slot extending in its inner side the full circumference of the said frame, and a wire-netting fitted within the said frame and fastened therein by closing the said slot upon the edges of the said netting, in the manner and for the purpose as set forth and described.

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