

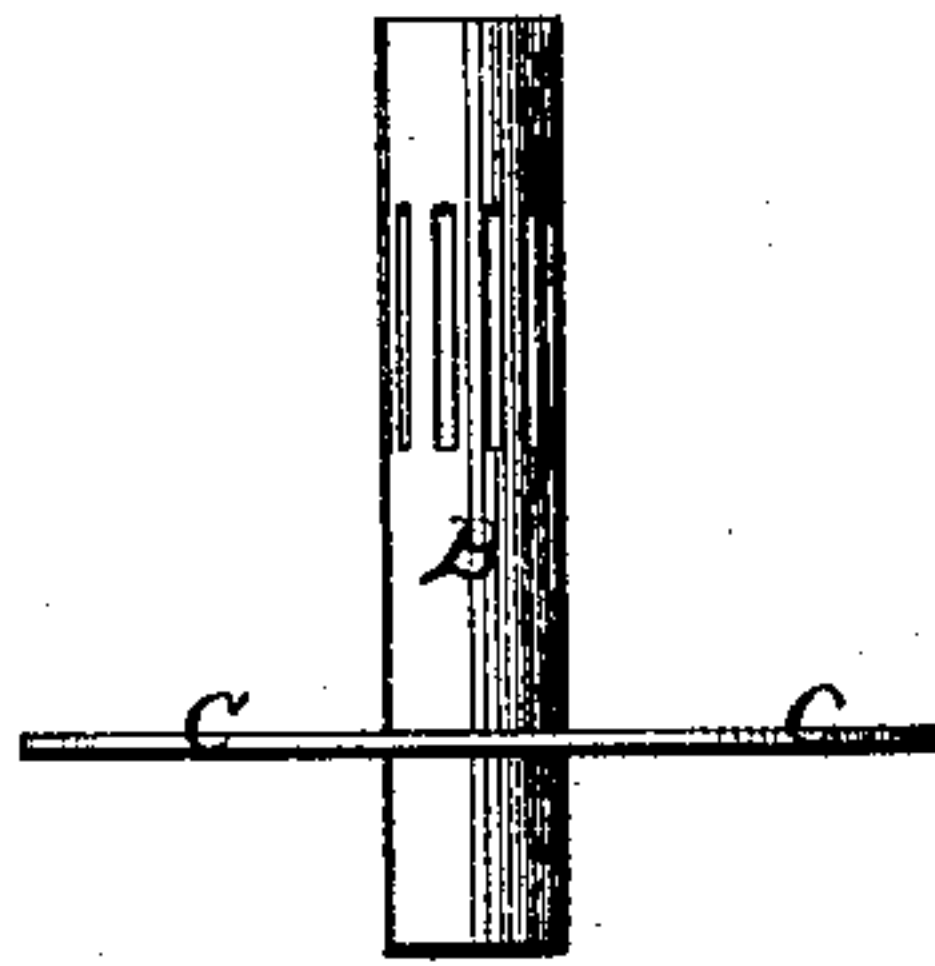
*A. Rankin.*

*Urinal.*

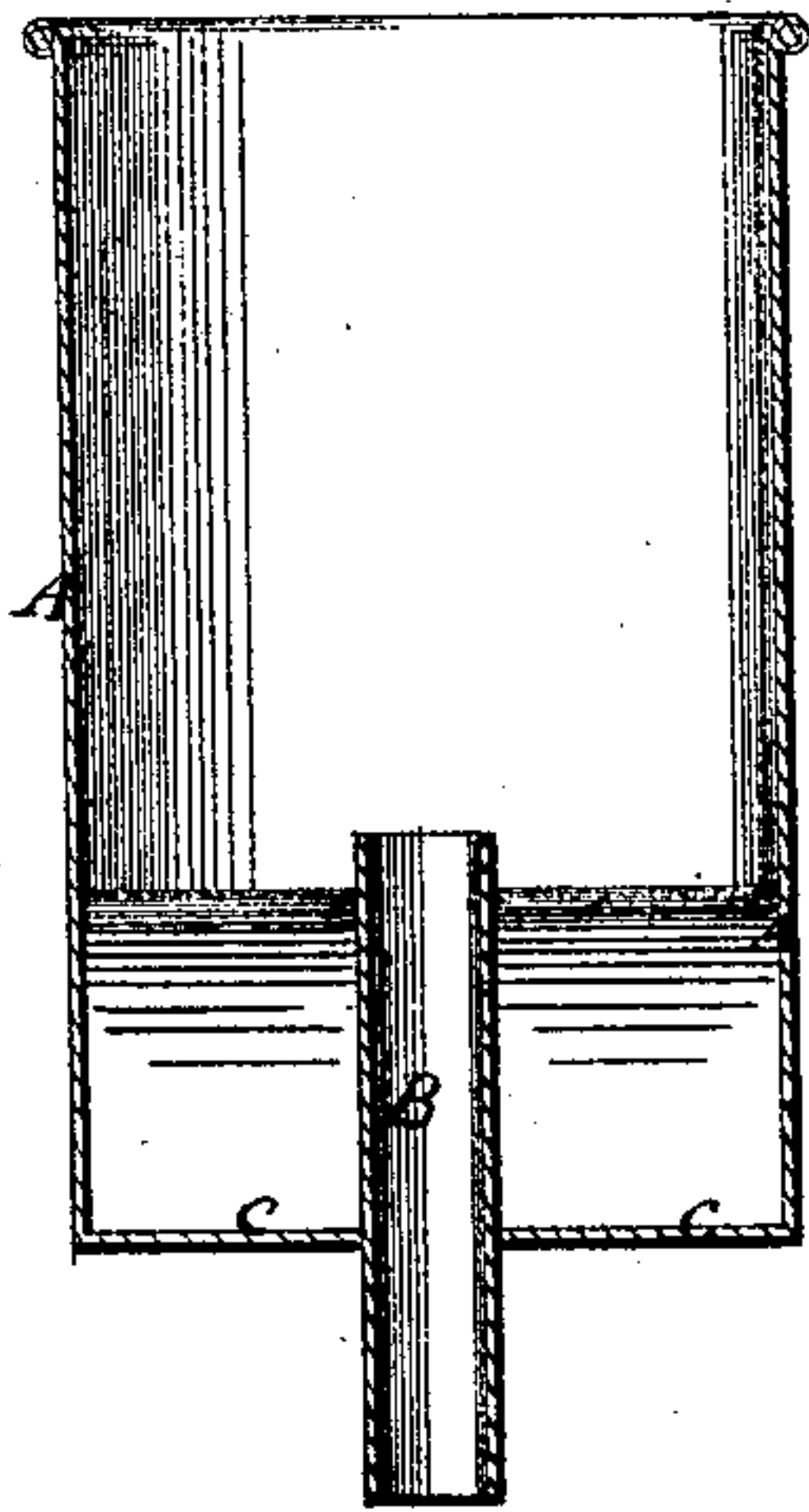
*Nº 53,488.*

*Patented Mar. 27, 1866.*

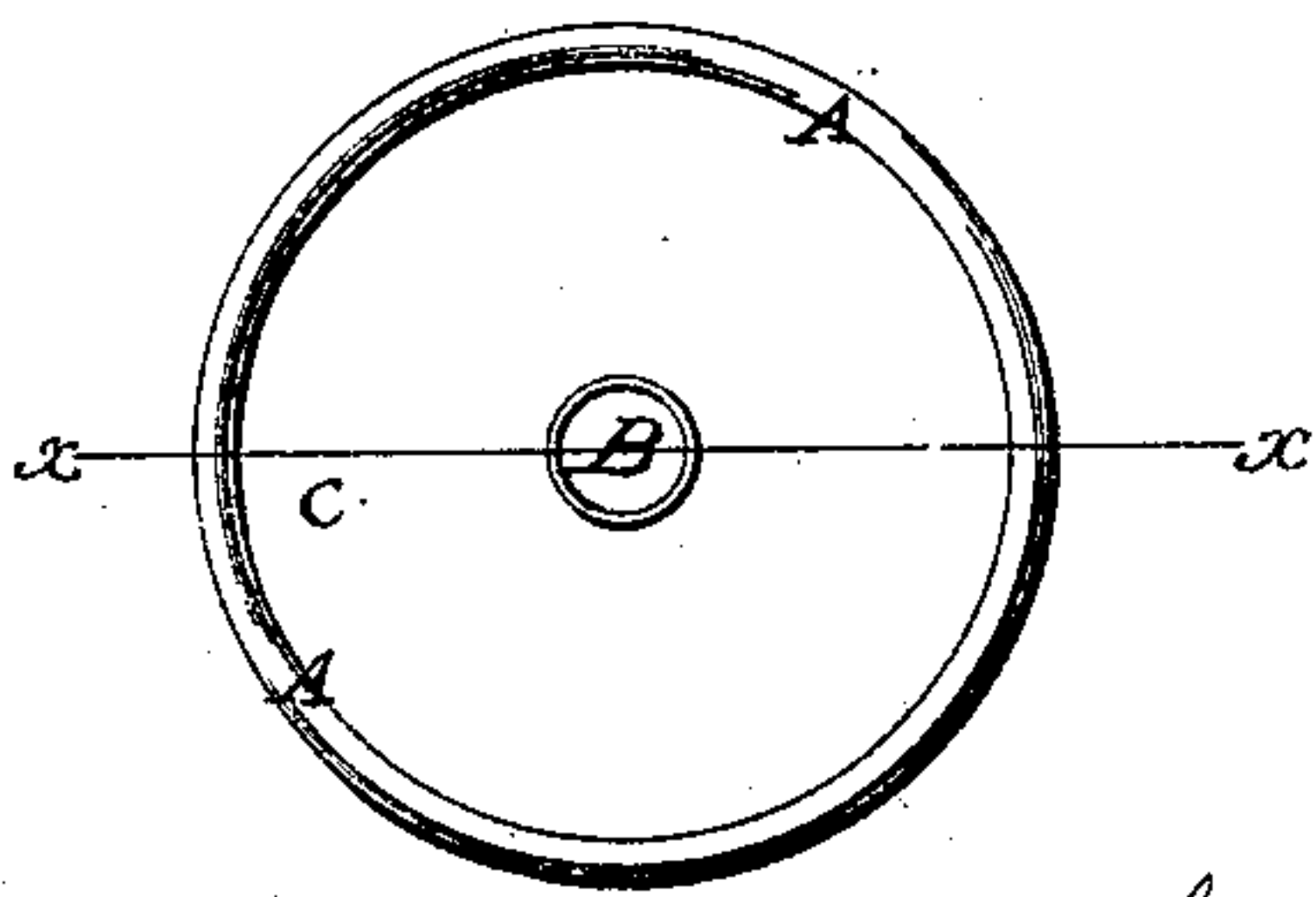
*Fig. 3.*



*Fig. 2.*



*Fig. 1.*



*Witnesses.*

*Wm. B. Lyon*  
*J. B. Livingston*

*Inventor*

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# UNITED STATES PATENT OFFICE.

ANDREW RANKIN, OF NEW YORK, N. Y.

## IMPROVEMENT IN URINALS.

Specification forming part of Letters Patent No. 53,488, dated March 27, 1866.

*To all whom it may concern:*

Be it known that I, ANDREW RANKIN, of the city, county, and State of New York, have invented new and useful Improvements in Urinals; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same.

The object of the present invention is to so construct a "urinal-bowl," so called, as to adapt it for the reception and retention of a deodorizer of the obnoxious and unpleasant odors emitted by the urine discharged by persons into the same, while at the same time the free escape of the urine from the bowl into the waste-pipe is not in the least degree interfered with, as will be apparent from the following detail description thereof, reference being had to the accompanying plate of drawings, of which—

Figure 1 is a plan or top view of the urinal-bowl constructed according to my improvement; Fig. 2, a central vertical section taken in the plane of the line *x x*, Fig. 1, and Fig. 3 a side elevation of a portion of the urinal, showing a modification in the construction of the same in order to adapt it for use, in connection with my improvement for urinals where one bowl is used, but which is partitioned off so that more than one person can be using it at one and the same time and yet not be exposed to each other, urinals having such a construction or so partitioned being frequently employed in railroad-depots, ferry-houses, and other places of public resort.

A in the drawings represents a cylindrical or other suitable-shaped vessel or bowl, made of metal or any other of the materials ordinarily used for urinal purposes, which vessel is open at its upper end and is to stand in a vertical position, or nearly so, when set.

B is the waste-pipe for the escape of the urine discharged into the bowl A, placed in the center of the bottom piece, C, of the bowl and extending upward therefrom for a short distance, as plainly shown in Fig. 2. Around the projecting portion of the pipe within the urinal-bowl, any suitable deodorizing agent or compound is placed, as represented by red lines in the drawings, to a height equal, or nearly so, to that of the pipe, the deodorizing agent which I prefer to use being that described in the specification accompanying an

application for Letters Patent made by me bearing even date herewith for a deodorizing compound. By thus extending the waste-pipe above the bottom of the urinal-bowl a reservoir or space is left about the same suitable for the reception of a deodorizing agent, while at the same time the free escape of the urine through the waste-pipe is allowed, it overflowing into the same, as is obvious without further explanation, my deodorizing composition hereinabove referred to being of a much heavier specific gravity than the urine and consequently remaining in the bowl, the deodorizing agent completely relieving all the smell and odor emitted from the urine, the advantage of which is manifest.

As before stated in Fig. 3, the adaptation of my improvement to a partitioned urinal-bowl is shown, it consisting in lieu of having the urine overflow the top of the waste-pipe, in perforating the upper portion of the same through which perforations the urine passes, said perforations being at a sufficient distance from the bottom of the bowl to form the requisite reservoir or receptacle for the deodorizing agent. Perforations can also be made in the waste-pipe of the bowl, (shown in Figs. 1 and 2, as well as that shown in Fig. 3,) but I do not deem it necessary or even desirable in such cases; but I do not, however, wish to limit myself to any particular form or shape of the urinal bowl or trough or outlets for the urine from the bowl, as they can be indefinitely varied, the present invention simply consisting in so constructing a urinal bowl or trough that while the free escape of the urine therefrom is allowed, a deodorizing agent can be placed and retained therein for the purpose of removing the obnoxious odors emitted from the urine.

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

A urinal in which a deodorizing agent is applied around an eduction tube, arranged in relation to the vessel as herein shown and described.

The above specification of my invention signed by me this 24th day of October, 1865.

ANDREW RANKIN.

Witnesses:

ALBERT W. BROWN,  
THEO. TUSCH.