No. 668,872. Patented Feb. 26, 1901.

W. H. DEWAR.

URINAL.

(Application filed Aug. 15, 1900.)

(No Model.)

Fig. 1.

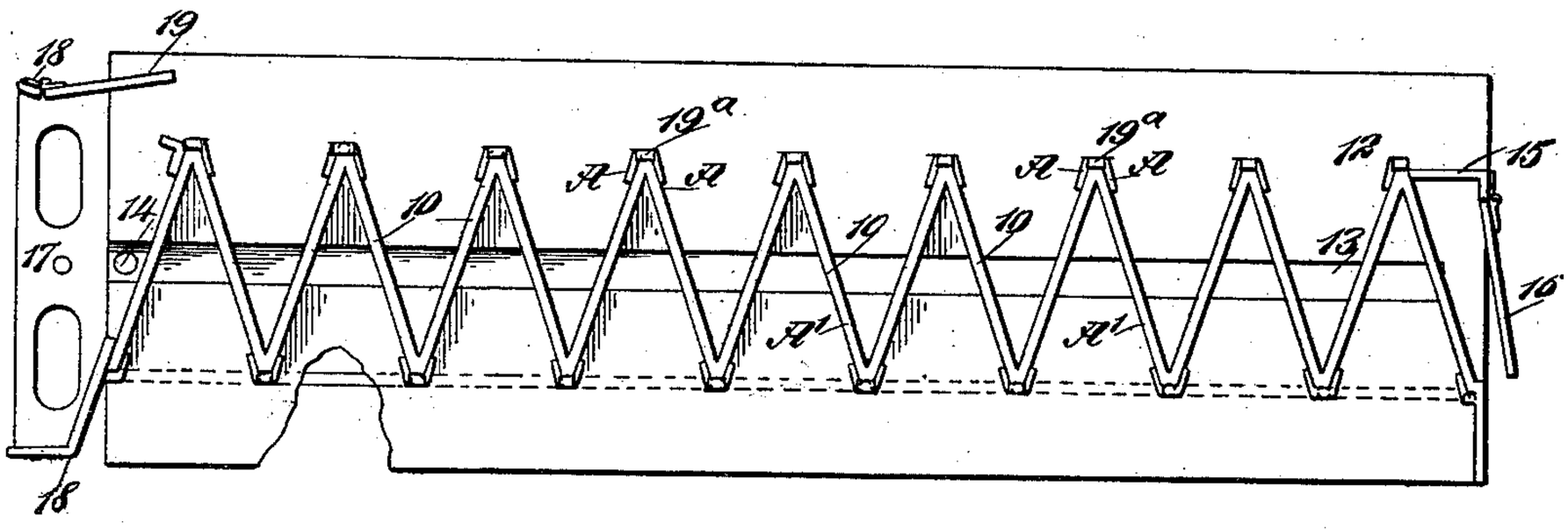


Fig. 2.

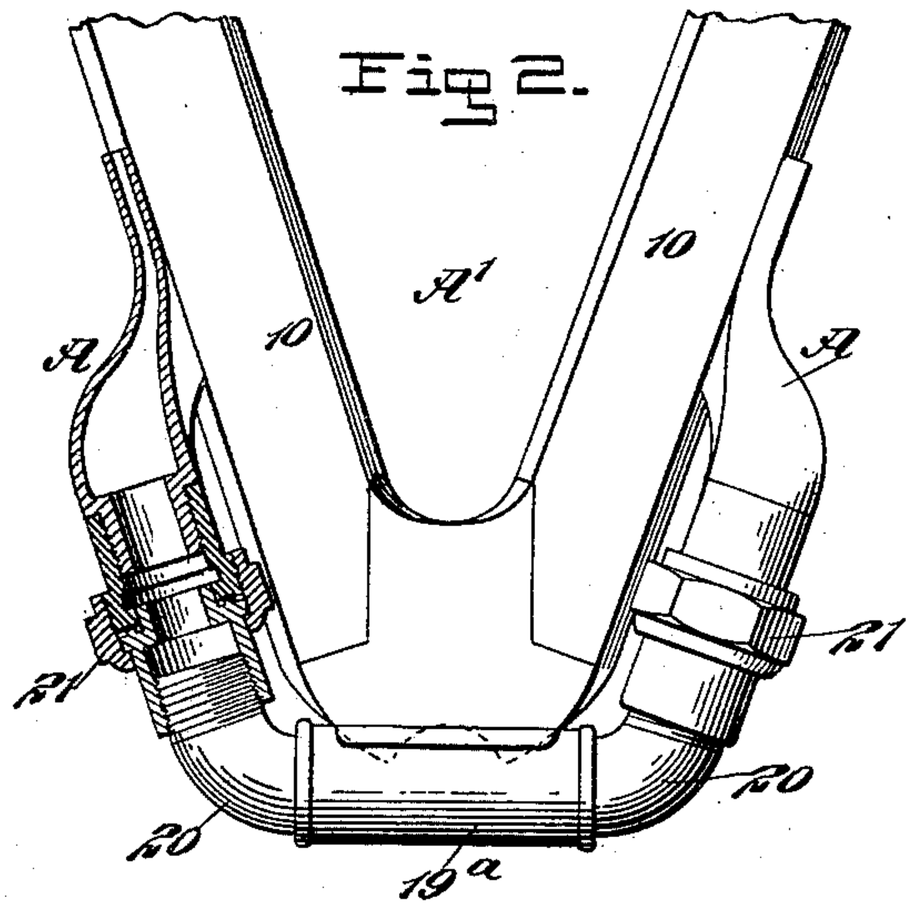


Fig. 3.

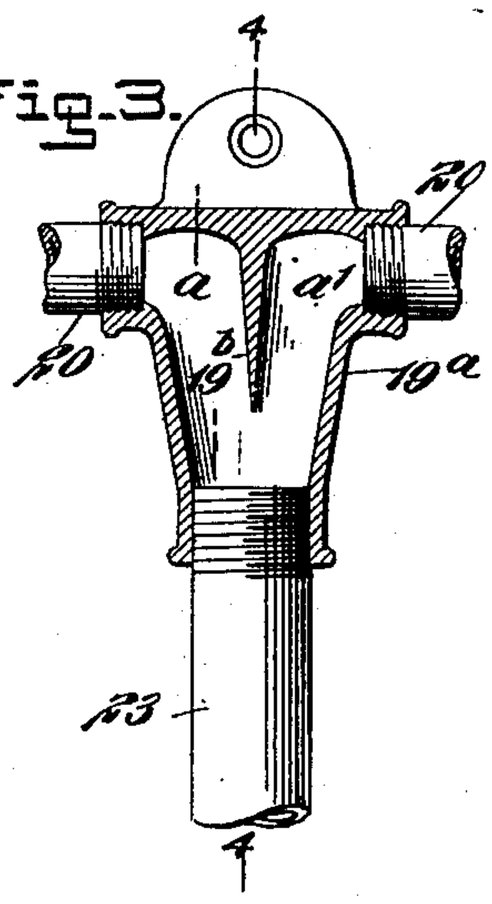


Fig. 6.

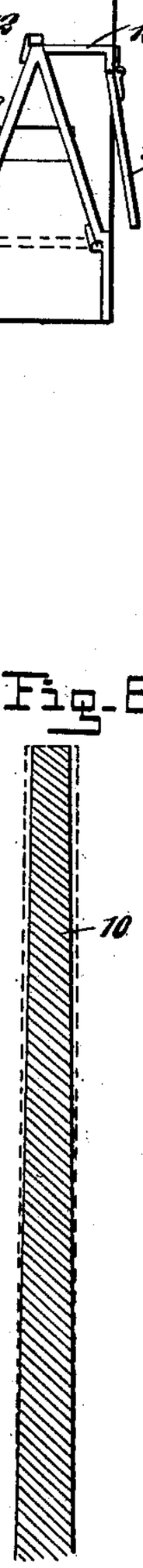


Fig. 5.

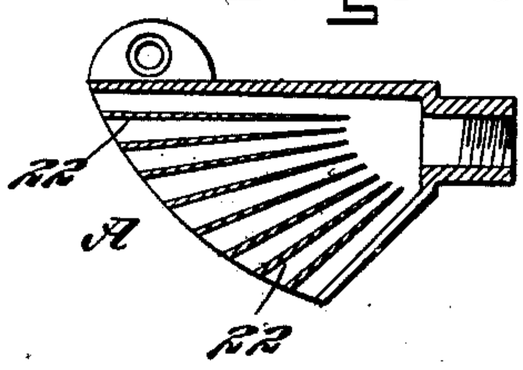
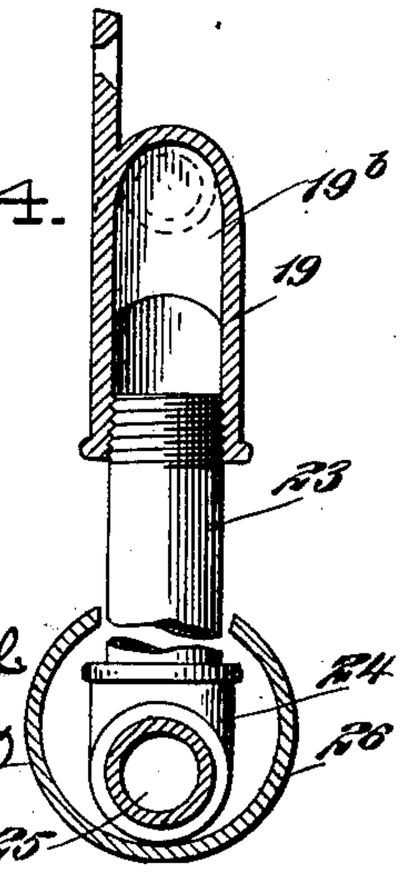


Fig. 4.



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URINAL.

SPECIFICATION forming part of Letters Patent No. 668,872, dated February 26, 1901.

Application filed August 15, 1900. Serial No. 26,955. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. DEWAR, a citizen of the United States, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and useful Improvement in Urinals, of which the following is a full, clear, and exact description.

The purpose of the invention is to so construct urinals that a number of persons may be individually and comfortably accommodated in a comparatively small space or in a space which would not accommodate nearly as many where urinals are constructed in the customary manner.

A further purpose of the invention is to provide nozzles for the water-supply pipes which will spread and deliver the water directly upon the vertical faces of the slabs forming the pockets of the urinal and to so incline the members forming the pockets of the urinal that the wash-water will flow down the faces of the said members in direct contact therewith, thus insuring the said members of the urinal being always in a sanitary condition.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a plan view of a urinal constructed in accordance with my invention. Fig. 2 is an enlarged plan view of a portion of a pocket of the urinal and also a plan view and longitudinal section through nozzles and water connections therewith, which nozzles supply water to the vertical faces of the members of the pocket. Fig. 3 is a vertical section through the fitting with which the nozzles are connected and a side elevation of a portion of a water-supply pipe connected with said fitting. Fig. 4 is a vertical section taken, practically, on the line 4 4 of Fig. 3. Fig. 5 is a vertical longitudinal section through one of the nozzles; and Fig. 6 is a vertical longitudinal section through one of the slabs, illustrating the inclination of the upper portion of the faces.

The urinal is constructed of a series of slabs 10, opposing slabs being connected in the form of a V, so that the entire arrangement of the slabs is substantially zigzag, forming at each longitudinal side of the series of slabs series of V-shaped pockets A′. The slabs 10 may be of any suitable material and are connected in any approved manner. The slabs rest upon a suitable base 12, having a gutter 13, tapped by a suitable drain 14, as shown in Fig. 1.

In Fig. 1 I have illustrated an angular vertical partition 15, located at one end of the series of pockets, which partition is provided with a door 16, the door and partition being so constructed as to form a closet for any desired purpose, as for the storage of brooms or cleaning utensils, and at the opposite end of the series of pockets A′ a platform 17 is constructed, upon which basins may be mounted, and a compartment is formed for such basins by partitions 18, one of the partitions being provided with a suitable door 19.

At the angle of intersection of the members of the pocket A′ a T-fitting 19^a is located at the top of the angular portions of said pocket, and this T-fitting is divided into two compartments *a* and *a′*, as shown in Figs. 3 and 4, by means of a partition 19^b, which partition does not extend to the lower portion of the vertical section of the said T-fitting. Each end of the horizontal section of each T-fitting 19^a is connected with a pipe 20, and these pipes are curved in direction of the vertical faces of the pockets and are in their turn connected by a union 21 or like fitting with nozzles A. The unions 21 are provided in order that the nozzles A may be readily disconnected when desired for cleansing or for other purposes.

The nozzles A are of fan shape, as shown in Fig. 5, and the outlet portions of the nozzles rest upon or bear against the vertical faces of the members of the pockets A′, as is best shown in Fig. 2. Each nozzle A is provided with a series of partitions 22, which extend from a point near the inlet of the nozzles to the outlet thereof, the said partitions being inclined to accord with the fan-like shape of the body of the said nozzles, as is illustrated in Fig. 5. Under such a construction the water passing through the nozzles is separated into many sprays of sheet form,

and such sprays are delivered directly upon the vertical faces of the members of the slabs 10 of the pockets A'. In order that the water thus delivered from the nozzles shall cling close to the vertical faces of the slabs 10, said slabs at each side are given a downward and outward inclination from their upper edges to a point at or near their centers, as shown in Fig. 6.

Each T-fitting 19ª is connected with a stand-pipe 23, and these stand-pipes in their turn are connected with T-fittings 24, located below the platform 12, and said T-fittings 24 or equivalent fittings constitute portions of water-supply pipes 25, also located below the platform 12. Preferably these main water-supply pipes 25 are located in semicircular casings 26 in order that they may be protected. The supply-pipes 25 may be removed at any time by disconnecting the stand-pipes 23 therefrom and drawing the supply-pipes out through an end of their casings 26.

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

1. In the construction of urinals, a series of connected V-pockets, stand-pipes adapted to supply water and located at the angle of intersection of the members of said pockets, and nozzles connected with said stand-pipe and engaging with the vertical faces of the members of the pockets at a point near the top, substantially as described.

2. In the construction of urinals, slabs forming a V-shaped pocket, a water-supply pipe, a T-fitting connected with the water-supply pipe and located at the angle of intersection of the members of the pocket, and nozzles connected with the horizontal member of the T-fitting and having their delivery ends held close to the vertical faces of the slabs, for the purpose set forth.

3. In the construction of a urinal, slabs arranged to form V-shaped pockets, a T-fitting located at the top of each pocket at the angle and having its upper portion divided into two compartments by a partition, pipes connected with each end of the horizontal section of the T-fitting and curved in direction of the vertical faces of the pockets, nozzles connected with said pipes and engaging with the vertical faces of the members of the pockets at a point near the top, and a water-supply pipe connected with the T-fitting, for the purpose set forth.

4. In the construction of urinals, the combination with a V-shaped pocket, of a stand-pipe adapted to supply water and located at the angle of the said pocket, a T-fitting connected with said stand-pipe and located at the top of the pocket at the angle, the T-fitting being divided into two compartments by a vertical partition and fan-shaped nozzles connected with the horizontal member of the said T-fitting and arranged in close proximity to the vertical faces of the members of the V-shaped pocket, said nozzles being provided with interior partitions which radiate from a point near the inlet of the nozzle, for the purpose set forth.

5. In the construction of urinals, slabs arranged to form a series of connected V-shaped pockets, the vertical faces of each slab being inclined in a downward and outward direction from the top of the slab to a point at or near its center, nozzles held in engagement with the vertical faces of the slabs, the nozzles being at each side of the angle of intersection of the slabs and engaging with the upper portions of said slabs and a water-supply pipe arranged at the angle of intersection of said slabs and connected with the said nozzles, for the purpose specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM H. DEWAR.

Witnesses:

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