(No Model.)

M. MEERES.

DRINKING FOUNTAIN.

No. 588,772. Patented Aug. 24, 1897.

Fig. 3.

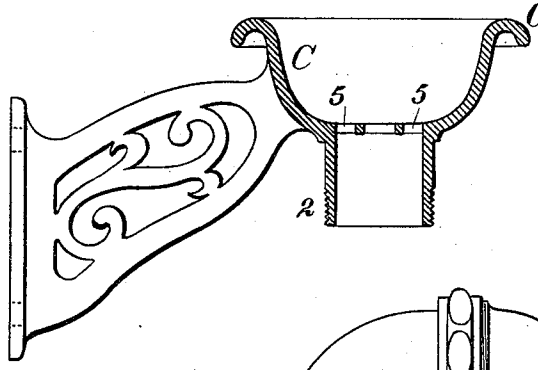
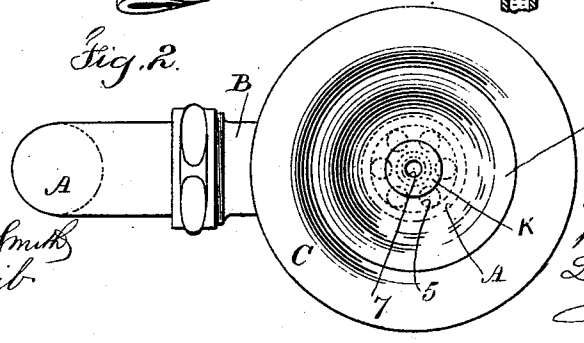


Fig. 1.

Fig. 2.



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UNITED STATES PATENT OFFICE.

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DRINKING-FOUNTAIN.

SPECIFICATION forming part of Letters Patent No. 588,772, dated August 24, 1897.

Application filed September 10, 1896. Serial No. 605,402. (No model.)

To all whom it may concern:

Be it known that I, MICHAEL MEERES, a citizen of the United States, residing in the city and State of New York, have invented an Improvement in Drinking-Fountains, of which the following is a specification.

Objection has been made to the water-supply employed, especially in schools and academies, railway-stations, public parks, &c., in which a cup is provided, on account of the risk of contagion being communicated by such cup.

The object of the present invention is to provide an upwardly-directed jet of water in a position convenient for the person to bend the head over the jet of water and allow it to pass into the mouth, whereby the person only comes into contact with the flowing water as it issues fresh from the jet-pipe, and the parts are arranged with reference to the easy access to the water by the person drinking the same and to the carrying off of the surplus water in such a manner that it is not liable to become spilled or to come into contact with the clothing of the person drinking at the fountain.

With the foregoing object in view a substantially vertical water-pipe is provided with a jet at the upper end, a cup immediately surrounding the jet-pipe and with its edges rising above the same, so that the water in the cup will prevent the person drinking bringing the lips into contact with the metal of the jet, and around the cup is a receiving-bowl for the overflow from the edge of the cup, the bowl rising higher than the edge of the cup, so as to prevent a person drinking from the edge of the cup. The bowl is connected to a waste-pipe and trap leading to a sewer or other outlet, and this device is usually attached to a marble slab or other similar support, such as a bracket.

In the drawings, Figure 1 is a vertical section of the apparatus. Fig. 2 is a plan view showing the cup, bowl, and jet-tube; and Fig. 3 illustrates a bracket for the bowl.

The waste-pipe A is provided with a trap B, leading to a sewer-pipe or other suitable discharge, and upon the upper end of the waste-pipe is a bowl C, advantageously let into the marble slab D or other suitable support, the tubular shank 2 of the bowl being united to the upper end of the waste-pipe A by a coupling 3, of any desired character, and it is advantageous to screw-thread the tubular shank 2 of the bowl C for the reception of the clamping-flange E, which is advantageously ornamental in its exterior configuration and screwed up tightly against the under side of the slab D, so as to confine the bowl C firmly in position.

The water-supply pipe F is provided with a stop-cock G, which is advantageously actuated by a key applied to the square 4 at the end of the valve-stem, and this square and valve-stem are within a tubular recess, so as not to be easy of access without the use of a key.

The water-pipe extends through the packing-gland H, by which a tight joint is made between the water-pipe and the waste-pipe, and the water-pipe is advantageously central within such waste-pipe and passes through a central hole in the bottom of the bowl C, and there are holes at 5 in the bottom of the bowl and around the water-supply pipe for the free discharge into the waste-pipe of water from the bowl C. This packing allows the water-pipe to be raised or lowered to bring the parts that are secured to it into the proper position within the bowl C.

The cup I is screwed or otherwise secured upon the upper end of the water-supply pipe F, and it is advantageous to employ a lock-nut 6 for holding the cup securely in position when it has been adjusted, and it is to be understood that this cup I can be raised or lowered, so as to occupy the desired position in relation to the bowl C. Usually the cup I will be slightly below the bowl, so that the water will not be liable to spill that runs over the edge of the cup I into the bowl C.

The jet pipe or nozzle K is screwed or otherwise fastened upon the top end of the water-supply pipe F, and it has through it suitable holes for the discharge of the water. I find it advantageous to employ a central vertical hole 7 and lateral holes 8 around the cylindrical portion of the nozzle.

It is now to be understood that the stop-cock G is regulated so that the pressure of water will cause a jet to be discharged upward through the hole 7 and to a sufficient height above the top edge of the cup I for a person to stoop

over and receive the water into the mouth, and thus drink without the mouth or any portion of the face coming into contact with anything but the water. The water falling back from the jet fills the cup I and the surplus overflows from the edge of the cup and runs off by the waste, and it is usually advantageous to have the top of the jet-nozzle K below the level of the water in the cup I, so that the lips of the person drinking will not come into contact with the metal of the jet or nozzle, and the water issuing through the holes 8 will cause a constant outward flow for keeping the cup clean by rapidly changing the water therein. This improvement is especially available for drinking-fountains in public places, such as parks, schools, &c.

When the edge of the cup is below the edge of the bowl, as shown, the person cannot drink from the edge of the bowl, but must receive the water directly into the mouth. The bowl may be held by a bracket or other support, as illustrated in Fig. 3.

I claim as my invention—

1. The combination with a water-supply pipe, of a cup surrounding the water-pipe and permanently connected thereto, a jet-nozzle surmounting the supply-pipe and extending up into the cup with its upper end below the level of the upper edge of the cup, a basin surrounding the cup and a waste-pipe connecting with the lower part of the basin, substantially as set forth.

2. The combination with a water-supply pipe, of a cup surrounding the water-pipe and permanently connected thereto, a jet-nozzle surmounting the supply-pipe and extending up into the cup with its upper end below the level of the upper edge of the cup, a basin surrounding the cup and a waste-pipe connecting with the lower part of the basin, and a trap in the waste-pipe through which the water-supply pipe passes, substantially as set forth.

3. The combination with a waste-pipe, of a bowl at the upper end thereof, a support for the bowl and through which the waste-pipe passes, means for clamping the bowl and waste-pipe to the support, a water-supply pipe passing up through the waste-pipe and through the perforated bottom of the bowl, a cup supported by the water-pipe and a jet-nozzle at the upper end of the water-pipe and within the cup, substantially as set forth.

4. The combination in a drinking-fountain, of a water-supply pipe and a cock for regulating the discharge of water, a jet-nozzle at the upper end of the supply-pipe, a cup surrounding the water-supply pipe and means for adjusting the same vertically to regulate the relative positions of the cup and the jet-nozzle, substantially as set forth.

5. The combination in a drinking-fountain with the water-supply pipe and a cup permanently fastened to the upper end, of a jet-tube having a small vertical opening for the discharge of the water to be drank, and small lateral openings for agitating the water in the cup and keeping the same in a sanitary condition, substantially as set forth.

6. The combination in a drinking-fountain, of a water-supply pipe and a cock for regulating the discharge of water, a jet-nozzle at the upper end of the supply-pipe, a cup surrounding the water-supply pipe and means for adjusting the same vertically to regulate the relative positions of the cup and the jet-nozzle, a basin and a waste-pipe therefrom below the cup, substantially as specified.

7. The combination in a drinking-fountain, of a water-supply pipe and a cock for regulating the discharge of water, a jet-nozzle at the upper end of the supply-pipe, a cup surrounding the water-supply pipe and means for adjusting the same vertically to regulate the relative positions of the cup and the jet-nozzle, a basin and a waste-pipe therefrom below the cup, and a packing around the water-pipe where it passes through the waste-pipe, substantially as specified.

Signed by me this 8th day of September, 1896.

MICHAEL MEERES.

Witnesses:
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