Nov. 25, 1930. A. PICCIONE 1,782,793

STATIONARY SHAVING CUP

Filed May 14, 1928

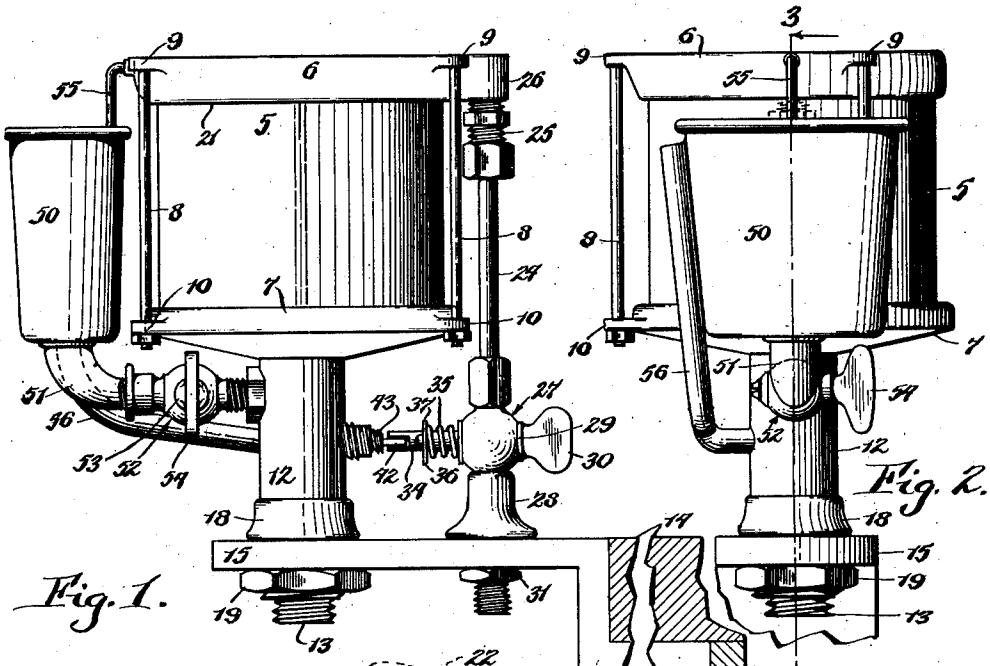

Fig. 1.

Fig. 2.

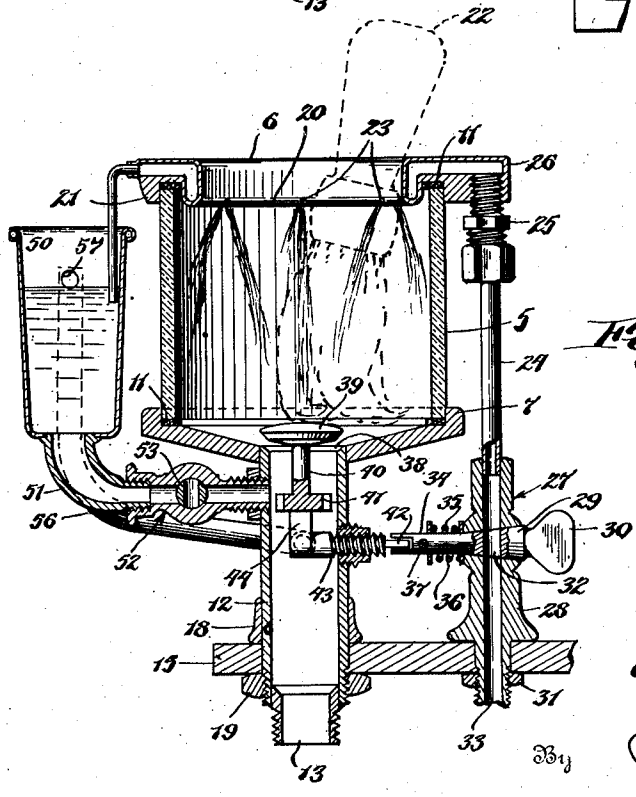

Fig. 3.

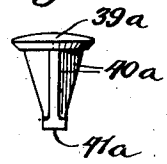

Fig. 4.

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Patented Nov. 25, 1930

1,782,793

UNITED STATES PATENT OFFICE

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STATIONARY SHAVING CUP

Application filed May 14, 1928. Serial No. 277,641.

This invention relates to a stationary shaving cup and more particularly to a cup having drain and hot water supply connections so as to readily enable barbers to produce lather for shaving purposes and thereafter thoroughly flush the cup and thereby keep the cup in a sanitary condition.

One of the objects of this invention is to provide a shaving cup of this character which can be quickly, readily and thoroughly flushed by turning on the water supply valve, and in which a small quantity of water is retained in the brush for the purpose of supplying the necessary water for producing a lather in the cup.

A further object is to provide such a cup which is so designed that it can be readily taken apart, thoroughly cleaned and dried, thereby keeping it in the most sanitary condition.

A further object is to provide such a cup in which a small amount of water is retained in the cup for the production of lather after it has been flushed and in which the cup can be completely drained or filled with water as occasion demands.

A still further aim is to provide such a stationary shaving cup which is compact and attractive, simple and inexpensive in construction, reliable in operation and not liable to get out of order under conditions of constant service.

Another aim is to provide such a cup which has an auxiliary hot water reservoir into which the barber can dip his fingers to moisten and clean the face and neck of the customer.

In the accompanying drawings:

Figure 1 is a side elevation of my improved stationary shaving cup showing the same mounted on a bracket which is supported from the counter.

Figure 2 is a front elevation thereof.

Figure 3 is a vertical transverse section, taken on line 3—3 of Figure 2.

Figure 4 is a side elevation of a modified form of drain valve member adapted for use in connection with the present invention.

Similar reference numerals refer to like parts in each of the views.

In this general organization this invention comprises a cup supported on a drain pipe and having a hollow rim to which is connected a hot water pipe, this rim having a plurality of ports which are adapted to direct a plurality of fine streams of water in different directions into the cup and thereby thoroughly flush the same, a valve in the drain pipe, a valve in the hot water supply pipe and means operatively connecting these valves whereby when the supply valve is opened the drain valve is also opened so that the cup can be completely and thoroughly flushed, and the lather removed therefrom.

In the form of the invention shown in the drawings, the cup is composed of a cylindrical glass section 5 which is held between a hollow metal rim 6 and a metal bottom 7. These parts are held together by tie bolts 8 passing through lugs 9 and 10 on the rim and bottom and a water tight seal between these parts is obtained by the provision of gaskets 11 at the upper and lower ends of the cylindrical glass section 5.

The metal bottom 7 is dished downwardly so that the water in the cup flows toward the center thereof, and at its center this bottom 7 is suitably connected to a drain pipe 12 which extends downwardly and at its lower end has a suitable nipple 13 which is adapted for connection with the sewer pipe.

The cup is adapted to be mounted either directly on the counter 14 or may be mounted on a bracket 15 which bracket has a vertical part 16 and is adapted to be screwed or otherwise suitably fastened to the side 17 of the counter. The drain pipe 12 is provided above the bracket 14 with a collar 18 which is held against the upper side of the bracket by a nut

19, the cup being thereby rigidly mounted on the bracket.

The hollow rim 6 includes a depending annular portion 20 which projects into the cup and a bead 21, the depending portion 20 and the bead 21 forming a channel which receives the upper end of the cylindrical glass member 5 and the gasket 11. To thoroughly flush the cup and also clean and moisten the shaving brush 22 within the cup and depending portion 20 of the rim is provided with a plurality of spaced ports 23, one series of which are adapted to direct a plurality of sprays or fine streams of hot water toward the center of the cup and thereby moisten the brush, and the other series being directed against the glass part 5 thereby to thoroughly clean and rinse the same.

Hot water is supplied to the hollow rim 6 by a supply pipe 24 having a suitable connection 25 with an outward extension 26 on the rim. The flow of water through this pipe is controlled by a valve 27 which includes a valve body 28 and a conical valve member 29 which is turned by means of a finger piece 30. The lower end of the valve body 28 is threaded and extends through the bracket 15 and is secured thereto by a nut 31. The lower threaded end of the valve is connected to a water supply pipe, (not shown) which is supplied from the usual hot water reservoir or other source of water.

The valve 27 is a one-way valve, the valve member 29 being provided with a single passage 32 which extends transversely therethrough and is adapted to register with the passage 33 through the valve body and permit hot water to pass through the pipe 24 and into the hollow metal rim 6. The valve member 29 is formed to provide an inward extension 34 and is held against its conical seat in the valve body 28 by means of a compression spring 35 interposed between a washer 36 and the valve body, the washer 36 being held against a pin 37.

The upper end of the drain pipe 20 is formed to provide a conical seat 38 on which a floating drain valve member 39 is adapted to rest and thereby prevent the water or lather from passing out through the drain pipe. This drain valve member 39 is formed to provide a downwardly extending shank 40 which is arranged within the drain pipe and at its lower end is provided with an enlargement 41 which serves as a weight to insure the proper seating of the drain valve and also cooperates in opening the valve. The sides of this enlarged portion 41 are preferably channeled so as to permit the water or lather to freely pass the same and thereby prevent the accumulation of water in the shaving cup while it is being flushed. The inner end of the supply valve member 29 is bifurcated and embraces and turns the flat outer end 42 of a stem 43 which is mounted for rotary movement in the drain pipe 12. The inner end of this stem 43 is formed to provide a cam 44 which engages the under side of the enlarged portion 41 of the drain valve member so that upon turning the stem 43 the drain valve is opened and closed. The relation between the cam 44 in operating the drain valve and the valve member 29 of the supply valve is such that when the supply valve 29 is open the drain valve is likewise open and when the supply valve 27 is closed the cam 44 is in a depressed position in which position the drain valve member is seated.

By this means upon opening the supply valve water passes through the supply pipe 24 into the hollow rim 6, out through the ports 20 through the cup, and past the open drain valve into the drain pipe 12 thereby thoroughly and completely flushing and cleaning the shaving cup and at the same time washing and moistening the shaving brush which is arranged therein. This flushing action is continued until the cup and brush have been thoroughly cleaned. Thereafter the supply valve 27 is turned off, this movement of the supply valve lowering the cam 44 and permitting the drain valve to seat. The small amount of moisture in the bottom of the cup and also the water retained in the brush 22 is sufficient to produce the necessary lather and the barber shakes the necessary amount of soap powder into the cup and works up the lather in the same preparatory to shaving the next customer. The cam 44 operating the drain valve is preferably so designed that the supply valve is closed and opened slightly in advance of the drain valve. By this means when it is desirable to drain the shaving cup completely the supply valve is turned to the position in which it cuts off the supply of water to the cup but also holds the drain valve open, and all of the water in the cup passes out through the drain pipe 12. By the further provision of the opening of the supply valve slightly in advance of the drain valve it is possible to turn the supply valve into a position in which it is open and the drain valve closed thereby permitting the cup to be completely filled with water should this be found desirable.

It is also apparent that the razor blade can be thoroughly and easily sterilized by holding the same in the shaving cup while the cup is being flushed, the hot water passing along opposite sides of the blade of the razor and completely and thoroughly cleaning and sterilizing the same.

It will also be noted that the drain valve member 39 can be removed by lifting the same out of the cup thereby permitting the cup, drain valve member and drain pipe to be thoroughly cleaned by hand and the cup kept in the most sanitary condition.

In moistening and cleaning the face and neck of the customer it is desirable to have a

reservoir or cup of hot water into which the barber can dip his fingers and thereafter use his moistened fingers in moistening and cleaning the face and neck of the customer. For this purpose a second reservoir or cup 50 is arranged in front of the shaving cup. This cup or reservoir 50 is preferably elongated so as to enable all of the fingers of the barber to be dipped into the same and is supported on a drain pipe 51 which connects with a drain valve 52, this drain valve being in turn secured to and opening into the side of the drain pipe 12. The drain valve 52 has the usual valve member 53 which is turned into its opened or closed position by means of a finger piece 54. The water for this secondary reservoir is supplied from a pipe 55 which connects with the hollow rim 6 of the shaving cup and extends downwardly into the reservoir 50. By this means whenever the supply valve 29 is opened a part of the water passing through the hollow rim 6 passes with the pipe 55 into the reservoir 50 and keeps a constant supply of hot water in the same. To prevent an overflow of the water in the reservoir 50 an overflow pipe 56 is secured to the side of the reservoir 50, the reservoir being provided at its side with an opening 57 which opens into the overflow pipe 56 and thereby maintains the water at the level indicated in Figure 3. The lower end of the overflow pipe 56 is connected with a main drain pipe 12.

By this means in using the shaving cup the drain valve 52 of the reservoir 50 is normally closed and a supply of hot water in the reservoir is maintained at all times, the flow of water through the same serving to keep the water in this reservoir clean. When, however, it is desirable to clean the reservoir 50, the drain valve 52 therefor is opened, and the water in the reservoir 50 is completely drained off, thereby permitting the barber to clean the same thoroughly with a towel and soap.

Instead of the form of drain valve member 39 shown in Figure 3, the modified form of drain valve member shown in Figure 4 may be used. This drain valve member is similar to the preferred form except that instead of the shank 40 and the enlarged and channel-shaped portion 41 of the lower end of the same the member 39^a is formed to provide three flanges 40^a which taper downwardly and at their lower ends are squared so as to form a flat face 41^a which engages the cam 44 by which this floating valve member is lifted to drain the shaving cup.

From the foregoing it is apparent that the present invention provides a compact and conveniently operated shaving cup of this character which is automatically maintained in a sanitary condition and is so designed that it can be thoroughly and conveniently cleaned. It also automatically serves to provide the right amount of water for producing lather thereby facilitating the operation of shaving. It is also compact and attractive in appearance, it is simple and inexpensive in construction and reliable in operation and is not liable to get out of order in use. The same also provides all of the necessary adjuncts for the shaving operation.

I claim as my invention:

1. A shaving cup of the character described, comprising a cup, a drain for said cup, a drain valve in said drain, a water supply pipe for said cup, a valve in said water pipe, and means operatively connecting said supply valve and drain valve whereby said drain valve is opened when said supply valve is opened and vice versa, said means being adapted to close said supply valve slightly in advance of said drain valve, thereby to permit of completely draining said cup after the flow of supply water has been cut off.

2. A shaving cup of the character described, comprising a cup, a drain at the lower end of said cup, a drain valve in said drain, a stem rotatably mounted in said drain below said drain valve, a cam carried by said stem and adapted to engage said drain valve and actuate the same, a water supply pipe for said cup remote from said drain, a rotary valve in said water supply pipe arranged coaxial with said stem, and means operatively connecting said supply valve and said stem whereby said drain valve is opened when said supply valve is opened and vice versa.

3. A shaving cup of the character described, comprising a cup, a drain pipe at the lower end of said cup, a water supply pipe for said cup remote from said drain, said supply pipe being arranged adjacent to and parallel with said drain pipe, a drain valve in said drain pipe, a stem rotatably mounted in said drain pipe, means for actuating said drain valve in response to the movement of said stem, a rotary valve in said supply pipe adjacent and coaxial with said stem, and means operatively connecting said stem and supply valve whereby said drain valve is opened when said supply valve is opened and vice versa.

4. A shaving cup of the character described, comprising a cup, a drain pipe at the lower end of said cup, a water supply pipe for said cup, said water supply pipe being arranged adjacent to and parallel with said drain pipe, a drain valve in said drain pipe, a stem rotatably mounted in the wall of said drain pipe, a member carried by said stem and adapted to engage and actuate said drain valve when said stem is turned, a supply valve in said water supply pipe and including a rotatable plug having a bifurcated end engaging and turning said stem, said elements being so organized that said drain valve is opened when said supply valve is opened and vice versa.

5. A shaving cup of the character described, comprising a cup including a bottom section, a hollow rim section, and an intermediate tubular glass section, means for connecting said sections, said rim being provided with a plurality of ports directed towards the interior of said cup, a drain pipe connected with said bottom section, a drain valve in said drain pipe, a water supply pipe connected with said rim section and arranged adjacent to and parallel with said drain pipe, a valve in said water supply pipe, and means operatively connecting said drain valve and said water supply valve whereby said drain valve is opened when said supply valve is opened and vice versa.

6. A shaving cup of the character described, comprising a cup including a bottom section, a hollow rim section and an intermediate tubular glass section, means for connecting said sections, said rim being provided with a plurality of ports directed towards the interior of said cup, a drain pipe connected with said bottom section, a valve seat at the upper end of said drain pipe, a floating drain valve member including a head adapted to engage said seat and a stem projecting downwardly into said pipe, a stem rotatably mounted in the side of said drain pipe, a cam carried by said stem and adapted to engage an under side of said stem and lift said valve member, a water supply pipe connected with said rim and arranged adjacent to and parallel with said drain pipe, a supply valve in said water supply pipe and including a transverse plug, and means connecting said plug and said stem whereby said drain valve is opened when said supply valve is opened and vice versa.

7. A shaving cup including a cup having a drain, means for flushing said cup, a water supply pipe for said flushing means, a valve in said water supply pipe, an auxiliary reservoir arranged adjacent said cup, a drain for said auxiliary reservoir and a pipe connected with said flushing means and discharging into said auxiliary reservoir whereby water is supplied to said auxiliary reservoir when said cup is flushed.

8. A shaving cup including a cup having a drain, means for flushing said cup, a water supply pipe for said flushing means, a valve in said water supply pipe, an auxiliary reservoir arranged adjacent said cup, an overflow pipe for said auxiliary reservoir, said overflow pipe being connected with said drain, and a pipe connected with said flushing means and discharging into said auxiliary reservoir whereby water is supplied to said auxiliary reservoir when said cup is flushed.

9. A shaving cup including a cup having a drain, means for flushing said cup, a water supply pipe for said flushing means, a valve in said water supply pipe, an auxiliary reservoir arranged adjacent said cup, an overflow pipe for said auxiliary reservoir, said overflow pipe being connected with said drain, a pipe connected with said flushing means and discharging into said auxiliary reservoir whereby water is supplied to said auxiliary reservoir when said cup is flushed, a drain pipe at the lower end of said auxiliary reservoir and connected with said drain for said cup and a valve in said drain pipe.

In testimony whereof I hereby affix my signature.

ANGELO PICCIONE.