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[54] **COMPACT WATER PIPE**

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[52] **U.S. Cl.** **131/173,** 131/221, 131/229

[51] **Int. Cl.** **A24f 1/30**

[58] **Field of Search** 131/173, 229, 221

[56] **References Cited**

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[57] **ABSTRACT**

Described herein is a compact water pipe comprising essentially of a first hollow elongated tube having a cap secured across the bottom end such that the tube is able to retain fluid, a second hollow elongated tube, one end of which is inserted into the first tube and the other end of which extends outwardly therefrom and is adapted to receive a reversible smoking bowl. The smoking bowl is connected to the second tube and is adapted to retain the smoking tobacco. The reversible bowl is provided with two independent smoking compartments of different sizes, both smoking compartments having the same diameter such that they each fit over the open end of the second elongated tube. An orifice, connecting the first and second smoking compartments, is provided to enable the smoke to pass into the second tube, through the fluid, and out through the first tube. A closure cap is provided across the open end of the first tube to prevent fluid spillage while permitting smoke to pass through a series of passages contained therein. The arrangement of the component parts is such that the device is portable and easily dismantled for rapid and efficient cleaning.

7 Claims, 2 Drawing Figures

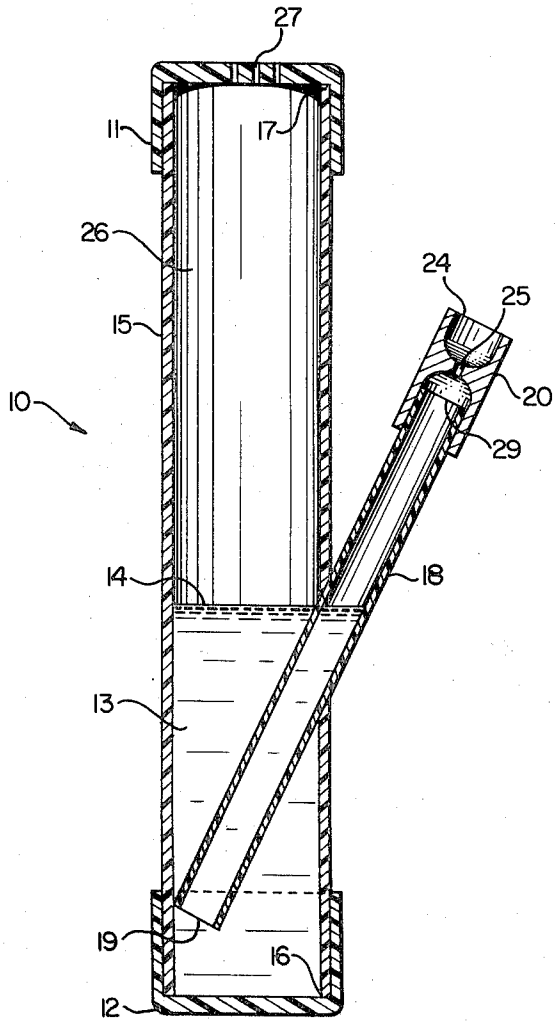
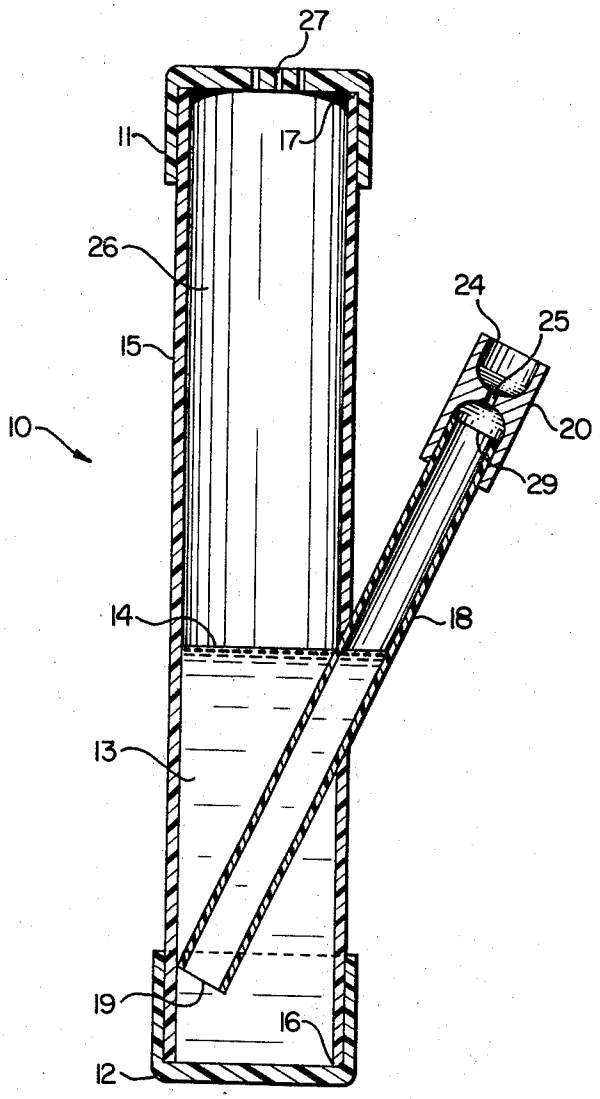


FIG. 1



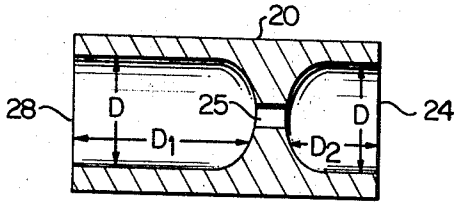


FIG. 2

COMPACT WATER PIPE

BACKGROUND OF THE INVENTION

This invention relates generally to a smoking device, and more particularly to an improved liquid filtered smoking device which is portable, readily adaptable to cleaning, and particularly useful in connection with the smoking of rare and expensive tobaccos.

Prior art water pipes usually suffer from the disadvantages that they consist of one or more flexible hoses which have a great tendency to get clogged up as a result of the smoke which passes therethrough. Such prior art water pipes are large, bulky and quite difficult to maintain and clean, and they must often be completely discarded after extensive use. Additionally, such pipes are unsanitary, complicated in their construction, and extremely inefficient when it is attempted to use such pipes for the smoking of rare and expensive tobaccos.

It is, therefore, a primary object of this invention to provide a new and improved smoking device which avoids all of the above-mentioned disadvantages.

An additional object of this invention is to provide a smoking device which is easy to clean and for which replacement parts can be readily had.

Still another object of this invention is to provide a smoking device which is sturdy and rugged in its construction.

Yet an additional object of this invention is to provide a smoking device which is uniquely well suited for the purpose of smoking rare and expensive tobaccos.

Another object of this invention is to provide a smoking device that is portable and readily adaptable to efficient shipment in bulk.

An additional object is to provide a water pipe that will not spill water when tilted or caused to fall on its side.

Still another object is to provide a water pipe which can be used in conjunction with various sizes of liquid compartments to change the volume of filtering fluid at the user's option.

Yet another object of this invention is to provide a smoking device having a unique reversible bowl which is capable of retaining a smaller or a larger amount of smoking tobacco at the user's option.

SUMMARY OF THE INVENTION

Briefly, in accordance with this invention, a compact water pipe is provided which comprises a first hollow elongated tube having top and bottom open ends, closure means secured across the bottom end to permit fluid to be retained in the tube, a second hollow elongated tube having top and bottom ends, said bottom end being inserted into the first tube and the top end extending outwardly therefrom, and a reversible smoking bowl connected to the top end of the second tube for retaining smoking tobacco and permitting smoke to pass into the tube. A top closure cap is provided for the open end of the first tube to prevent fluid from spilling in the event the tube is tilted or caused to fall on its side. A plurality of holes within the top closure cap enables the user to draw smoke therethrough without removing the cap.

As the smoking tobacco is burned, smoke passes through an orifice in the reversible smoking bowl and into the second tube, and continues down into the fluid.

The user of the device draws air at the open end of the first tube, thereby creating a partial vacuum and causing the smoke to filter through the fluid and be drawn up into the first tube, whereby it is inhaled by the smoker. The water pipe is adapted to fit into a conventional fish bowl in order to increase the volume of filtering fluid, as will be hereinafter explained in greater detail.

DESCRIPTION OF THE EMBODIMENT

The specific nature of the invention as well as other objects and advantages thereof will clearly be apparent from the following description and the associated drawings.

FIG. 1 illustrates a cross-sectional view of a smoking device substantially in accordance with this invention.

FIG. 2 shows a cross-sectional view of the reversible bowl for use in accordance with this invention.

Referring more particularly to FIG. **1**, the water pipe of the present invention is illustrated generally by the numeral **10**. A first hollow cylindrical tube **15** is provided with top open end **17** and bottom open end **16** which is provided with closure cap **12** secured thereacross to permit fluid **13** to be retained within the tube. A second hollow elongated tube **18**, having a bottom open end **19** and a top open end **29**, is inserted diagonally into the first tube and secured therein.

Liquid **13**, which may be any suitable filtering liquid such as water, wine, or other liquid as desired, is retained within the tubes and comes up to the liquid level line **14**. The location of liquid level line **14** is at the user's option and need not be precisely specified. It is important, however, that bottom closure cap **12** provide a secure and liquid tight seal across open end **16** of tube **15** in order to retain liquid therein. This can be achieved by use of a conventional plastic or rubber cap which is designed to fit snugly across the bottom of the tube as shown.

Smoking bowl **20** is adapted to fit directly over open end **29** of tube **18**, and smoking compartment **24** of bowl **20** is designed to receive the smoking tobaccos.

Located across the top open end **17** of tube **15** is an additional closure cap **11** having a plurality of holes **27** therethrough. Cap **11** is also designed to fit snugly across the open end of the tube so as to retain fluid therein. The holes **27** are designed to be in the center of closure cap **11** such that in the event that the device **10** is tilted or caused to fall on its side, the liquid **13** would not come up to a sufficiently high level so as to emerge through holes **27**.

In operation, the smoking tobacco is placed within compartment **24** of smoking bowl **20** and is lit by the user. Simultaneously, the user places his mouth over holes **27** of open end **17** (or he may remove cap **11** and place his mouth directly over open end **17**) and draws thereupon so as to create a partial vacuum in region **26** of tube **15**. Smoke from the burning tobacco will be drawn through orifice **25** and will continue down through tube **18** and into liquid **13** by virtue of open end **19** of tube **18**. The smoke then filters through the liquid **13** and continues upward into cylindrical tube **15**, passing through liquid level line **14** and continuing upward until it reaches the user's mouth.

If a greater amount of filtering fluid is desired, bottom closure cap **12** can be removed and the entire device **10** may be inserted directly into the open end of a conventional fish bowl. A suitable air tight and rubber

like retaining piece may be provided to maintain the device **10** rigidly within the fish bowl. In this way, the volume of the fish bowl would permit a substantial increase in the amount of retained liquid, which would in turn provide more filtering to the smoke. Naturally, different size fish bowls would provide a variety of filtering media.

This new pipe arrangement is particularly efficient in that all of the smoke created by burning the tobacco in compartment **24** ultimately ends up in region **26** of tube **15** and is entirely, at the option of the user, drawn into the user's lungs. Accordingly, little or no smoke is wasted into the atmosphere as is the case with prior art inefficient pipes.

Referring now to FIG. **2,** the details of reversible bowl **20** will be described. Reversible bowl **20** comprises essentially of a first smoking compartment **24** having an inside diameter D and a second smoking compartment **28** also having the same inside diameter D. The two smoking compartments are connected by an orifice **25** having a sufficient diameter to permit smoke to pass therethrough while being capable of retaining the smoking tobaccos. Orifice **25** is large enough to permit ashes to fall through, thus clearing an air passage which tends to mellow the smoke. The bowl, which is preferably made of aluminum or other suitable material, is designed to fit snugly over the open end of cylindrical member **18,** as illustrated in FIG. **1.** It should be apparent that either compartment **24** or **28** can be made to slip over opening **29** of member **18,** and that in either event, the appropriate remaining compartment becomes a smoking compartment. Thus, a single unitary device is capable of providing the user with two separate smoking bowls each having the same diameter but each having a different length (D_1 or D_2) such that a different amount of smoking tobacco may be utilized with the same smoking pipe. Another use of this reversible bowl is disclosed in my copending application, Ser. No. 357,186, filed May 4, 1973.

Referring again to FIG. **1,** it will be apparent that the smoking device is quite simple to maintain and to keep clean. Thus tube **18** can easily be removed from tube **15** and smoking bowl **20** can easily be removed from the tip of tube **18.** In this way, all component parts of the water pipe can be placed inside of the large tube **15** during storage or during bulk shipment, thereby enabling the device to be efficiently stored and/or shipped.

For use in operation, cylindrical member **18** is maintained at an acute angle with respect to the vertical orientation of cylindrical member **15.** This arrangement is, however, merely exemplary, and it will be understood that the functions and orientations of the cylindrical members need not be precisely as shown in the attached drawing. Thus, appropriate interchanges would be well within the ability of persons having ordinary skill in the art. The cylindrical members **15** and **18** are preferably made of transparent material such as glass or suitable transparent plastics so as to enable the user to determine readily the level of liquid and smoke contained therein. As previously noted, the entire device can be inserted into a conventional bowl, such as a fish bowl, so as to significantly increase the volume of filtering liquid **13.** This arrangement is fully illustrated in applicant's co-pending application. Again, the device is designed so as to virtually eliminate the possibility of liquid spillage. Closure caps **11** and **12** fit snugly over tube **15** so as to prevent any liquid spillage. Holes **27** are designed to be in the center portion of closure cap **11** such that the liquid level line **14,** in the event of a tilting of device **10,** would still not rise sufficiently high so as to pass through these holes. Indeed, accidental water spillage is virtually eliminated.

Other appropriate and suitable modifications can be made to the structure of this device without departing from the spirit and scope of the inventive concept claimed herein. Thus, reversible smoking bowl **20,** as well as closure caps **11** and **12,** can be adapted to fit over the appropriate open ends in any of a number of well known ways such as the use of bayonet mounts, conventional screw threads and simply slip on techniques. The same principle applies with respect to the insertion of cylindrical member **18** within member **15.** During storage or shipment, tube **18** as well as reversible bowl **20** are removable from the angular position shown in FIG. **1** and will easily fit within the larger tube **15.**

It should be apparent from the foregoing that a new and improved smoking device has been provided which is uniquely suitable for smoking rare and expensive tobaccos and which is portable as well as readily adaptable to cleaning and efficient maintenance.

I claim as my invention:

1. A compact water pipe comprising:

a. a first hollow elongated cylindrical tube having top and bottom open ends;

b. means secured across said bottom end to permit fluid to be retained in said tube;

c. a second hollow elongated cylindrical tube having top and bottom open ends, said bottom end inserted into said first tube and said top end extending outwardly therefrom;

d. a cylindrical reversible smoking bowl connected to the top end of said second tube for retaining smoking tobacco and permitting smoke to pass into the tube;

e. said second tube and said bowl being smaller in length and diameter than said first tube and separable therefrom whereby said second tube and said bowl may be disassembled from said first tube and stored within the interior space defined by said first hollow tube;

f. whereby smoke passing into said second tube is drawn through said fluid and directed out through said first tube.

2. The device of claim **1** wherein said means secured across said bottom end comprises a removable cap.

3. The device of claim **2** further comprising a removable cap secured across the top end of said first tube.

4. The device of claim **3** wherein said cap secured across the top end contains a plurality of holes to permit smoke to be drawn without removal of the cap.

5. The device of claim **4** wherein said holes are centrally located to minimize fluid spillage when said pipe is in a horizontal position.

6. The device of claim **1** wherein said second tube is inserted into said first tube at an acute angle thereto.

7. The device of claim **1** wherein said reversible smoking bowl comprises

a. a first smoking compartment having an inside diameter adapted to fit over said top open end of said second tube;

b. a second smoking compartment having the same inside diameter as said first smoking compartment

and having a length larger than the length of said first smoking compartment; and

c. an orifice connecting said first and second smoking compartments for permitting smoke to pass therethrough;

d. whereby said bowl is reversible for retaining a larger or a smaller volume of smoking tobacco.

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