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Inventor(s)	Wiedemann; Dane et al.

Portable pipe assembly

Abstract

The present invention relates to a portable water pipe assembly for use in the vaporization of substances. Methods of using such an assembly are also provided.

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Background/Summary

CROSS-REFERENCE TO RELATED APPLICATIONS (1) This application is a continuation of U.S. application Ser. No. 17/491,815, filed Oct. 1, 2021, which claims priority to U.S. provisional application No. 63/249,283 filed on Sep. 28, 2021, the entire content of which is hereby incorporated by reference herein in its entirety.

FIELD OF THE INVENTION
(1) Aspects of the present invention relate to portable water pipe assemblies for inhalation of a gas entrained with product and methods of using.
BACKGROUND
(2) A water pipe is an inhalation device generally used for smoking herbal substances such as tobacco or cannabis. The use of water pipes can date back to over 2,000 years ago, and it has various designs around the world. A water pipe can be made of various materials such as, e.g., glass, plastic, metal, bamboo, etc., which can withstand repeated use and heat exposure without breaking. When smoking through a water pipe, the gas entrained with product of the burned herbal substance passes through the water before being inhaled by the smoker. It is believed that the water can trap some heavier particles and water-soluble molecules, preventing them from entering the smoker's airways, and may also provide a cooling effect.
(3) Studies have shown that water-filtered smoke is less harmful than non-filtered smoke. For example, it was found that when alveolar macrophages (mononuclear phagocytes found in the alveoli of the lungs, which ingest small inhaled particles resulting in the degradation, clearance and presentation of the antigen to adaptive immune cells) were exposed to unfiltered smoke, their ability to fight bacteria was reduced, unlike exposure to water-filtered smoke. There is also substantial epidemiological evidence of a lower incidence of carcinoma among tobacco smokers who used water pipes, as opposed to cigarettes, cigars and other unfiltered devices. In the case of cannabis smoking, it is believed that water filtration can be effective in removing components from cannabis smoke that are known as toxic, and the effectiveness of toxic substance removal may be related to the smoke's water contact area. One way to increase the smoke's water contact areas is to break up the smoke into very fine bubbles. This can be achieved by, e.g., incorporating particulate filters and gas dispersion frits into the water pipes.
(4) Accordingly, there is a need for a portable water pipe that provide an enhanced smoking experience, including improved quality of inhalation and improved ease of use, in a discrete. Aspects of the present disclosure are intended to address such issues.
SUMMARY
(5) Aspects of the invention are directed to a water pipe assembly for inhalation of a gas entrained with product. The water pipe assembly comprises: a container for receiving water therein, a removable bowl for receiving the product, an upper cap piece adapted to fit over the upper opening of the container housing, and a gas flow tube configured to extend from the upper cap piece into the interior region of the container. The container has a housing about an interior region and comprises an upper opening. The removable bowl comprises a bowl body comprising a top opening and having one or more apertures in a bottom portion thereof to allow the gas entrained with the product to pass therethrough, and the removable bowl comprises a handle extending

laterally from the bowl body and has a sealing portion. The upper cap piece comprises: a cap body comprising a compartment having first and second bowl receiving regions, the first bowl receiving region comprising a first recess configured to receive the bowl body, and the second bowl receiving region comprising an outlet that passes through the cap body, and over which the removable bowl can be positioned to provide a flow of the gas entrained with product from the apertures in the bowl body to the outlet during operation of the water pipe assembly; and a mouthpiece attached to the cap body, and having an inhalation outlet for inhaling the gas entrained with product, the mouthpiece being configured to transition between a closed position covering the compartment, to an open position that allows access to the compartment. The gas flow tube is configured to receive the flow of gas entrained with the product from the removable bowl via the outlet to introduce the flow of gas entrained with the product into the interior region of the container. The removable bowl is configured such that (i) the bowl body is received in the second bowl receiving region so as to provide the flow of gas entrained with the product to the gas flow tube during operation of the water pipe assembly, when the mouthpiece is in the open state, and (ii) the bowl body is received in the first recess of the first bowl receiving region and is covered by the mouthpiece when the mouthpiece is in the closed state, and the removable bowl is also configured such that the sealing portion of the handle extends over and seals off the outlet in the second bowl receiving region, when the bowl body is received in the first recess of the first bowl receiving region.

(6) According to another aspect of the invention, a method of using the water pipe assembly disclosed herein is also provided. This method comprises: removing the upper cap piece from the container housing and filling the interior region of the container with water to a predetermined level; re-attaching the upper cap piece to the container housing, such that a lower end of the gas flow tube is submerged in the water in the interior region of the container; transitioning the mouthpiece to the open position to reveal the compartment having the first and second bowl receiving regions; inserting the removable bowl into the second bowl receiving region of the upper cap piece; filling the bowl body of the removable bowl with product; igniting the product in the bowl body, thereby forming the flow of gas entrained with the product that passes into the water in the interior region of the compartment and on to the mouthpiece; and inhaling the flow of gas entrained with the product received from the interior region of the compartment via the inhalation outlet of the mouthpiece.

Description

BRIEF DESCRIPTION OF THE DRAWINGS

(1) The following drawings form part of the present specification and are included to further demonstrate certain aspects of the present invention. The invention may be better understood by reference to one or more of these drawings in combination with the detailed description of specific embodiments presented herein.

(2) FIG. **1** shows an exploded view of an embodiment of a portable water pipe assembly;

(3) FIG. **2** is a perspective view of a representative assembled structure of the upper cap piece, the gas flow tube and the bubbler assembly, in the closed state;

(4) FIGS. **3**-**6** are side views of the structure of FIG. **2**;

(5) FIG. **7** is a top view of the structure of FIG. **2**;

(6) FIG. **8** is a bottom view of the structure of FIG. **2**;

(7) FIG. **9** is a perspective view of the structure of FIG. **2** from a different angle;

(8) FIG. **10** is a perspective view of the portable water pipe assembly in its closed state excluding the cap;

(9) FIG. **11** is another perspective view of the assembly of FIG. **10** not showing the interior structure;

(10) FIG. **12** shows the open state of the structure of FIG. **2**;
(11) FIGS. **13**-**16** are side views of the structure of FIG. **12**;
(12) FIG. **17** is a top view of the structure of FIG. **12**;
(13) FIG. **18** is a bottom view of the structure of FIG. **12**;
(14) FIGS. **19** and **20** are perspective views of the structure of FIG. **12** from different angles;
(15) FIG. **21** shows the open state of the portable water pipe assembly of FIG. **10**;
(16) FIG. **22** shows the open state of the portable water pipe assembly of FIG. **11**;
(17) FIG. **23** is a cross-sectional view of the structure of FIG. **3**;
(18) FIG. **24** is a cross-sectional view of the upper portion of the structure of FIG. **3**;
(19) FIG. **25**A is a cross-sectional view of an embodiment of the portable water pipe assembly in its closed state, and FIG. **25**B is a cross-sectional view of an embodiment of the portable water pipe assembly in its open state, showing a representative gas flow path;
(20) FIG. **26** is a cross-sectional view of the structure of FIG. **13**;
(21) FIG. **27** is a cross-sectional view of the upper portion of the structure of FIG. **13**;
(22) FIG. **28** is the perspective view of FIG. **12** showing part of the interior structure including the inlet;
(23) FIG. **29** is a perspective view of an embodiment of an alternative design;
(24) FIG. **30** is a perspective view of the embodiment of FIG. **29**, in its open state;
(25) FIG. **31** is perspective view of the embodiment of FIG. **29**, in its closed state;
(26) FIGS. **32**-**35** show various view of the embodiment of FIG. **29**, in its open state;
(27) FIGS. **36**-**39** show various views of the embodiment of FIG. **29**, in its closed state;
(28) FIGS. **40**-**42** show different states of a representative “slidable” mouthpiece that can be used on a portable water pipe assembly of this disclosure.

DETAILED DESCRIPTION OF THE INVENTION

(29) Aspects of the invention as described herein are directed to an improved, low profile, portable water pipe assembly for the inhalation of substances, such as aromatic substances, therapeutic substances and/or substances with physiological effects. Examples of such substances can include herbs, such as tobacco, cannabis, lavender, chamomile, and other types of plant material. In an embodiment, the water pipe assembly disclosed herein uses a product selected from tobacco leaves, cannabis flowers, or other herbal substances.
(30) Referring to FIG. **1**, an embodiment of a portable water pipe assembly **100** is shown in exploded view, according to aspects of the disclosure herein. The portable water pipe assembly **100** comprises a container **101** for receiving water therein, a removable bowl **102** for receiving the product, an upper cap piece **103** adapted to fit over the upper opening **1011** of the container housing, and a gas flow tube **104** configured to extend from the upper cap piece into the interior region of the container **101**. In an embodiment, the container **101** is transparent or translucent and made of food-grade material. In some embodiments, the food-grade material is BPA free such as, e.g., Tritan™.
(31) In an embodiment, the upper cap piece **103** comprises a threaded portion **1037** to attach to a complementary threaded portion **1012** at a top region **1010** of the container **101**. In another embodiment, the portable water pipe assembly **100** may further comprise a removable cap top **105** that is configured to be fitted over the cap body when the water pipe assembly **100** is in the closed state. The removable cap top **105** may fit over the cap body via various means, such as, e.g., a threaded design or a clip.
(32) In an embodiment, the portable water pipe assembly can further comprise a bubbler assembly **106** attached to the end of the gas flow tube **104** extending into the interior region of the container. In some embodiments, the bubbler assembly **106** may comprise a plurality of bubbler apertures configured to introduce the flow of gas entrained with the product received from the gas flow tube **104** into the interior region of the container **101**. In some embodiments, the bubbler assembly **106** comprises a disc **1060** attached at a lower end of the gas flow tube **104**, the disc comprising a

plurality of bubble apertures formed on an underside thereof and at a plurality of regions about the circumference of the disc. In some other embodiments, the bubbler assembly **106** that is configured to diverge the flow of gas entrained with the product that is received from the removable bowl **102** into a plurality of airflows, to increase the contact area of the flow of gas entrained with the product with a liquid filled in the interior region of the container **101**. A higher effectiveness of toxic substance removal is expected using the above designs.

(33) Referring to FIG. **23**, an embodiment of the portable water pipe assembly **100** in closed state is shown. Further referring to FIG. **24**, in which the removable bowl **102** and the upper cap piece **103** are shown in detail. The upper cap piece **103** comprises a cap body **1030** comprising a compartment **10301** having first and second bowl receiving regions **1031** and **1032**, the first bowl receiving region **1031** comprising a first recess **1038** configured to receive the bowl body **102**, and the second bowl receiving region **1032** comprising an outlet **1033** that passes through the cap body **1030**. A mouthpiece **1034** is attached to the cap body **1030**, and has an inhalation outlet **1035** for inhaling the gas entrained with product. The removable bowl **102** comprises a bowl body **1020** comprising a top opening **1021** and having one or more apertures **1022** in a bottom portion **1025** thereof to allow the gas entrained with the product to pass therethrough, and the removable bowl **102** comprises a handle **1023** extending laterally from the bowl body **1020** and has a sealing portion **1024**. In an embodiment, the bowl body **1020** of the removable bowl **102** is made of heat resistant materials like, e.g., ceramic, and the handle **1023** (including the sealing portion **1024**) comprises a silicone sealing material.

(34) In another embodiment, the one or more apertures **1022** in the bottom portion of the bowl body **1020** are sized to allow air flow thereinthrough while also substantially maintaining the product contained in the bowl body **1020**. In the closed state as shown in FIGS. **23** and **24**, the bowl body **1020** is received in the first recess of the first bowl receiving region **1031** and is covered by the mouthpiece **1035**, and the sealing portion **1024** of the handle **1023** extends over and seals off the outlet **1033** in the second bowl receiving region **1032**.

(35) In an embodiment, the sealing portion **1024** of the handle **1023** comprises a sealing projection that extends from an underside of the handle **1023** and is configured to be fitted over the outlet **1033** of the second bowl receiving region **1032** when the mouthpiece **1034** is in the closed state.

(36) In another embodiment, the first and second bowl receiving regions **1031**, **1032** are located adjacent to one another in the compartment, such that the sealing portion **1024** of the handle **1023** is capable of extending over and sealing off the outlet **1033** in the second bowl receiving region **1032** when the bowl body **1020** is received in the first receiving region **1031**. In further embodiment, the first recess of the first bowl receiving region **1031** is configured to accommodate a major portion of the bowl body **1020** within the first recess when the bowl body **1020** is received in the first bowl receiving region **1031**, and the first recess is configured to allow the handle **1023** of the removable bowl **102** to extend laterally from a top of the recess and over the outlet **1033** of the second receiving region **1032** to seal the outlet **1033**.

(37) In an embodiment, the second bowl receiving region **1032** comprises a second recess **1039** that is adjacent to the first recess of the first bowl receiving region **1031**, the second recess being separated from the first recess by a distance substantially equivalent to a reach of the handle **1023** from the first receiving region to the outlet **1033** of the second receiving region **1032**, when the bowl body **1020** is received in the first receiving region **1031**. In another embodiment, the second bowl receiving region **1032** comprises a second recess having the outlet **1033** therein and configured to receive the bowl body **1020**, and wherein the sealing portion **1024** of the handle **1023** of the removable bowl **102** extends into the second recess to plug the second recess and outlet **1033**.

(38) In yet another embodiment, the mouthpiece **1034** substantially conceals the compartment having the first and second bowl receiving regions **1031**, **1032**, when the mouthpiece **1034** is in the closed state.

(39) Referring to FIGS. **26** and **27**, an embodiment of the portable water pipe assembly **100** in open state is shown. The removable bowl **102** is positioned over the second bowl receiving region **1032** to provide a flow of the gas entrained with product from the apertures **1022** in the bowl body **1020** to the outlet **1033** during operation of the water pipe assembly; and the mouthpiece **1034** is in the open position that allows access to the compartment through an inlet **1036**.
(40) In an embodiment, the second bowl receiving region **1032** comprises a second recess configured to receive the bowl body **1020** when the mouthpiece **1034** is in the open state, the second recess comprising the outlet **1033** formed in a bottom region thereof. In some embodiments, the second bowl receiving region **1032** comprises a mount **10321** to receive and retain the bowl body **1020**, the mount comprising the outlet **1033** formed therein. In another embodiment, the second bowl receiving region **1032** comprises a second recess configured to receive the bowl body **1020**, the second recess being shallower than the first recess of the first receiving region **1031**, so as to provide access to the removable bowl **102** when the bowl body **1020** is received in the second bowl receiving region **1032**.
(41) In an embodiment, the mouthpiece **1034** comprises an inhalation inlet **1036** configured to receive the flow of gas entrained with the product from the interior region of the container **101**. In an embodiment, the mouthpiece **1034** is rotatably attached to the cap body **1030**, and is configured to be rotated to transition between the closed position covering the compartment, and the open position that allows access to the compartment. In some embodiments, the mouthpiece **1034** is attached to the cap body **1030** via a hinge, and wherein rotating the mouthpiece at the hinge causes to mouthpiece to transition between the open and closed states. Alternatively, as shown in FIGS. **40**-**42**, in an embodiment, the mouthpiece is slideably attached to the cap body, and is configured to be slid to transition between the closed position covering the compartment, and the open position that allows access to the compartment. In some embodiments, the upper cap piece **103** comprises tracks that engage the mouthpiece to allow the mouthpiece to slide between open and closed positions.
(42) In an embodiment, the mouthpiece **1034** comprises the inhalation outlet **1035** and an inhalation inlet **1036** at either ends of a conduit formed in a straw portion, and wherein at least one of the inhalation inlet and inhalation outlet are sealed when the mouthpiece is in the closed position, so as to prevent passage of air and/or liquid therethrough. In another embodiment, the mouthpiece **1034** comprises the inhalation outlet **1035** and an inhalation inlet **1036** at either ends of a conduit formed in a rotatable or slidable straw portion, and wherein rotation or sliding of the straw portion of the mouthpiece to the closed position disengages the inhalation inlet from communication with the interior region of the container **101**, so as to prevent passage of air and/or liquid into the mouthpiece conduit from the interior region of the container.
(43) Although the water pipe assembly as shown in FIG. **1** has the appearance of a water bottle, other equivalent designs are also encompassed in the present disclosure. For example, in FIG. **29**, a cup-like assembly **200** is shown in its open state. It comprises a cup body **201**, an upper cap piece **203**, and a removable bowl **202**. The interior structure is shown in FIG. **30** (open state) and FIG. **31** (closed state), which is essentially the same as the water bottle version **100**.
(44) Referring to FIG. **25**B, a representative gas flow path within the water pipe assembly during operation is illustrated in a cross-sectional view. The removable bowl **102** is filled with a product and sits in the recess of the second bowl receiving rejoin **1032**. After the product is lit, the smoke produced therefrom passes through the one or more apertures **1022** in the bottom portion of the bowl body **1020** and the outlet **1033**, and enters the gas flow tube **104**. The gas entrained with the product travels down the tube **104** and diverges into a plurality of smaller airflows after passing through a bubbler assembly **106** attached to the end of the gas flow tube **104** and submerged in the water. Those small airflows generate bubbles, rise up to the water surface, and enter the upper portion of the container **101**. The filtered gas enters the opened mouthpiece **1034** through an inlet **1036** that communicates between the interior of the container **101** and the mouthpiece **1034**, and

eventually inhaled by a user through an inhalation outlet **1035**.
(45) According to another aspect of the present disclosure, a method of using the portable electronic vaporizing device disclosed herein is provided. For example, the method may comprise: removing the upper cap piece from the container housing and filling the interior region of the container with water to a predetermined level; re-attaching the upper cap piece to the container housing, such that a lower end of the gas flow tube is submerged in the water in the interior region of the container; transitioning the mouthpiece to the open position to reveal the compartment having the first and second bowl receiving regions; inserting the removable bowl into the second bowl receiving region of the upper cap piece; filling the bowl body of the removable bowl with product; igniting the product in the bowl body, thereby forming the flow of gas entrained with the product that passes into the water in the interior region of the compartment and on to the mouthpiece; and inhaling the flow of gas entrained with the product received from the interior region of the compartment via the inhalation outlet of the mouthpiece.
(46) In an embodiment, the method above further comprises: moving the removable bowl from the second bowl receiving region into the first recess of the first bowl receiving region, and positioning the handle of the removable bowl such that the sealing portion of the handle seals the outlet of the second receiving region; transitioning the mouthpiece to cover the first bowl receiving region having the bowl body therein; and optionally, covering the upper cap piece with the removable cap top. In another embodiment, the method disclosed herein further comprises removing the upper cap piece from the container housing, and removing the water contained in the interior region of the container.
EQUIVALENTS
(47) While specific embodiments have been discussed, the above specification is illustrative, and not restrictive. Many variations will become apparent to those skilled in the art upon review of this specification. The full scope of the embodiments should be determined by reference to the claims, along with their full scope of equivalents, and the specification, along with such variations.

Claims

1. A pipe assembly for inhalation of a gas entrained with a product, comprising: a container, the container having a housing about an interior region and comprising an upper opening; a removable bowl for receiving the product, the removable bowl comprising a bowl body comprising a top opening and having one or more apertures in a bottom portion thereof to allow the gas entrained with the product to pass therethrough, and the removable bowl comprising a handle extending laterally from the bowl body and having a sealing portion; an upper cap piece adapted to fit over the upper opening of the container housing, the upper cap piece comprising: a cap body comprising a compartment having first and second bowl receiving regions, the first bowl receiving region comprising a first recess configured to receive the bowl body, and the second bowl receiving region comprising a receiving region outlet that passes through the cap body, and over which the removable bowl can be positioned to provide a flow of the gas entrained with the product from the one or more apertures in the bowl body to the receiving region outlet during operation of the pipe assembly; and a mouthpiece attached to the cap body, and having an inhalation outlet for inhaling the gas entrained with the product, the mouthpiece being configured to transition between a closed position covering the compartment, to an open position that allows access to the compartment, wherein the removable bowl is configured such that (i) the bowl body is received in the second bowl receiving region so as to provide the flow of the gas entrained with the product to the interior region of the container during operation of the pipe assembly, when the mouthpiece is in the open position, and (ii) the bowl body is received in the first recess of the first bowl receiving region and is covered by the mouthpiece when the mouthpiece is in the closed position, and wherein the removable bowl is configured such that the sealing portion of the handle extends over and seals off

the receiving region outlet in the second bowl receiving region, when the bowl body is received in the first recess of the first bowl receiving region.
2. The pipe assembly of claim 1, wherein the upper cap piece comprises a threaded portion to attach to a complementary threaded portion at a top region of the container.
3. The pipe assembly of claim 1, wherein the sealing portion of the handle comprises a sealing projection that extends from an underside of the handle and is configured to be fitted over the receiving region outlet of the second bowl receiving region when the mouthpiece is in the closed position.
4. The pipe assembly of claim 1, wherein the second bowl receiving region comprises a second recess configured to receive the bowl body when the mouthpiece is in the open position, the second recess comprising the receiving region outlet formed in a bottom region thereof.
5. The pipe assembly of claim 1, wherein the second bowl receiving region comprises a mount to receive and retain the bowl body, the mount comprising the receiving region outlet formed therein.
6. The pipe assembly of claim 1, further comprising a removable cap top that is configured to be fitted over the cap body when the mouthpiece is in the closed position.
7. The pipe assembly of claim 1, wherein the mouthpiece substantially conceals the compartment having the first and second bowl receiving regions, when the mouthpiece is in the closed position.
8. The pipe assembly of claim 1, wherein the mouthpiece comprises an inhalation inlet configured to receive the flow of the gas entrained with the product from the interior region of the container.
9. The pipe assembly of claim 1, wherein the mouthpiece is rotatably attached to the cap body, and is configured to be rotated to transition between the closed position covering the compartment, and the open position that allows access to the compartment.
10. The pipe assembly of claim 1, wherein the mouthpiece is attached to the cap body via a hinge, and wherein rotating the mouthpiece at the hinge causes to mouthpiece to transition between the open and closed positions.
11. The pipe assembly of claim 1, wherein the mouthpiece is slideably attached to the cap body, and is configured to be slid to transition between the closed position covering the compartment, and the open position that allows access to the compartment.
12. The pipe assembly of claim 11, wherein the upper cap piece comprises tracks that engage the mouthpiece to allow the mouthpiece to slide between open and closed positions.
13. The pipe assembly of claim 1, wherein the mouthpiece comprises the inhalation outlet and an inhalation inlet at either ends of a conduit formed in a straw portion, and wherein at least one of the inhalation inlet and inhalation outlet are sealed when the mouthpiece is in the closed position, so as to prevent passage of air and/or liquid therethrough.
14. The pipe assembly of claim 1, wherein the mouthpiece comprises the inhalation outlet and an inhalation inlet at either ends of a conduit formed in a rotatable or slidable straw portion, and wherein rotation or sliding of the straw portion of the mouthpiece to the closed position disengages the inhalation inlet from communication with the interior region of the container, so as to prevent passage of air and/or liquid into the mouthpiece conduit from the interior region of the container.
15. The pipe assembly of claim 1, wherein the first and second bowl receiving regions are located adjacent to one another in the compartment, such that the sealing portion of the handle is capable of extending over and sealing off the receiving region outlet in the second bowl receiving region when the bowl body is received in the first receiving region.
16. The pipe assembly of claim 1, wherein the first recess of the first bowl receiving region is configured to accommodate a major portion of the bowl body within the first recess when the bowl body is received in the first bowl receiving region, and the first recess is configured to allow the handle of the removable bowl to extend laterally from a top of the first recess and over the receiving region outlet of the second receiving region to seal the receiving region outlet.
17. The pipe assembly of claim 1, wherein the second bowl receiving region comprises a second recess that is adjacent to the first recess of the first bowl receiving region, the second recess being

separated from the first recess by a distance substantially equivalent to a reach of the handle from the first receiving region to the receiving region outlet of the second receiving region, when the bowl body is received in the first receiving region.

18. The pipe assembly of claim 1, wherein the second bowl receiving region comprises a second recess configured to receive the bowl body, the second recess being shallower than the first recess of the first receiving region, so as to provide access to the removable bowl when the bowl body is received in the second bowl receiving region.

19. The pipe assembly of claim 1, wherein the second bowl receiving region comprises a second recess having the receiving region outlet therein and configured to receive the bowl body, and wherein the sealing portion of the handle of the removable bowl extends into the second recess to plug the second recess and the receiving region outlet therein.

20. The pipe assembly of claim 1, wherein the container is transparent or translucent and made of food-grade material.

21. The pipe assembly of claim 20, wherein the food-grade material is BPA free.

22. The pipe assembly of claim 1, wherein the bowl body of the removable bowl is made of ceramic and the handle comprises a silicone sealing material.

23. The pipe assembly of claim 1, wherein the one or more apertures in the bottom portion of the bowl body are sized to allow air flow thereinthrough while also substantially maintaining the product contained in the bowl body.

24. The pipe assembly of claim 1, wherein the product is selected from tobacco leaves, *cannabis* flowers, or other herbal substances.

25. A method of using the pipe assembly according to claim 1, comprising: transitioning the mouthpiece to the open position to reveal the compartment having the first and second bowl receiving regions; inserting the removable bowl into the second bowl receiving region of the upper cap piece; filling the bowl body of the removable bowl with the product; igniting the product in the bowl body, thereby forming the flow of the gas entrained with the product that passes into the interior region of the compartment and on to the mouthpiece; and inhaling the flow of the gas entrained with the product received from the interior region of the compartment via the inhalation outlet of the mouthpiece.

26. The method according to claim 25, further comprising: moving the removable bowl from the second bowl receiving region into the first recess of the first bowl receiving region, and positioning the handle of the removable bowl such that the sealing portion of the handle seals the receiving region outlet of the second receiving region; transitioning the mouthpiece to cover the first bowl receiving region having the bowl body therein; and optionally, covering the upper cap piece with a removable cap top.