CLAIMS

What is claimed is:

1. A gas generator for health use, comprising:

an electrolysis device for electrolyzing water to produce a gas mixture including hydrogen and oxygen; and

a gas mixing system, coupled to the electrolysis device to receive the gas mixture and to mix the gas mixture with an atomized gas selected from a group consisting of an atomized medicinal liquid, a volatile essential oil and a combination thereof to produce a health gas.

2. The gas generator for health use of claim 1, wherein the gas mixing system further comprises:

a humidifier, coupled to the electrolysis device to receive the gas mixture for producing a filtered gas; and

an atomized/volatile gas mixing tank, coupled to the humidifier to receive the filtered gas, wherein the atomized/volatile gas mixing tank generates the atomized gas and produces the healthe gas by mixing the atomized gas and the filtered gas.

3. The gas generator for health use of claim 2 further comprising a conversion valve, coupled between the humidifier and the atomized/volatile gas mixing tank, wherein the conversion valve is adapted to selectively connect the humidifier to the atomized/volatile gas mixing tank, so that the atomized gas and the filtered gas is mixed to produce the health gas and is adapted to selectively disconnect the humidifier from the atomized/volatile gas mixing tank, so that the filtered gas is directly output for being inhaled by a user.

4. The gas generator for health use of claim 2, wherein the atomized/volatile gas mixing tank further comprises an oscillator for atomizing or vaporizing a liquid to produce the atomized gas.

5. The gas generator for health use of claim 4, wherein the liquid is selected from a group consisting of an essential oil, a medicinal liquid, pure water and a combination thereof.

6. The gas generator for health use of claim 5, wherein the atomized/volatile gas mixing tank further comprises a base liquid, wherein the liquid resides on top of the base liquid and the oscillator is set below the base liquid.
7. The gas generator for health use of claim 4, wherein the the gas mixing system is configured to selectively output the filtered gas or the health gas by turning on or turning off the oscillator.
8. A gas generator for health use, comprising:
    an electrolysis device for electrolyzing water to produce a gas mixture including hydrogen and oxygen; and
    a gas mixing system, coupled to the electrolysis device to receive the gas mixture and mix the gas mixture with an atomized gas to produce a health gas, wherein the atomized gas is a water vapor, an atomized medicinal liquid, a volatile essential oil, or a combination of any two or three of the water vapor, the atomized medicinal liquid and the volatile essential oil .
9. The gas generator for health use of claim 8 further comprising a flow meter coupled to the electrolysis device for detecting the flow rate of the gas mixture and controlling the quantity of the gas mixture produced from the electrolysis device.
10. The gas generator for health use of claim 9, wherein the flow meter is adapted to cut off eletric voltage or electric current supplied to the electrolysis device.
11. The gas generator for health use of claim 8 further comprising a flow controller coupled to the electrolysis device to control the flow rate of the gas mixture flowing into the gas mixing system.
12. The gas generator for health use of claim 8 further comprising a gas feeding element coupled between the electrolysis device and the gas mixing system to feed a gas to the gas mixture, thereby reducing the concentration of hydrogen in the gas mixture, wherein the gas is selected from a group consisting of air, water vapor, an inert gas, oxygen and a combination thereof.
13. The gas generator for health use of claim 12, wherein the concentration of hydrogen in the health gas ranges from 2% to 60%.
14. The gas generator for health use of claim 8, wherein the electrolysis device

comprises two electrodes and the electrodes have interchangeable polarity.

15. The gas generator for health use of claim 8, wherein the gas mixing system comprising a atomized/volatile gas mixing tank which comprises an oscillator for atomizing or vaporizing a liquid to produce the atomized gas.

16. The gas generator for health use of claim 15, wherein the liquid is an essential oil, a medicinal liquid, pure water, or a combination of any two or three of the essential oil, the medicinal liquid, and the pure water.

What is claimed is:

1. A gas generator apparatus for health use, comprising:
    an electrolysis device for electrolyzing water to produce a gas mixture including hydrogen and oxygen; and
    a gas mixing system, for coupling to the electrolysis device to receive the gas mixture and to mix the gas mixture with an atomized gas selected from a group consisting of an atomized medicinal liquid, a volatile essential oil and a combination thereof to produce a health gas.
2. The gas generator apparatus for health use of claim 1, wherein the gas mixing system further comprises:
    a humidifier, for coupling to the electrolysis device to receive the gas mixture for producing a filtered gas; and
    an atomized/volatile gas mixing tank, for coupling to the humidifier to receive the filtered gas, wherein the atomized/volatile gas mixing tank is adapted to generate the atomized gas and to produce the health gas by mixing the atomized gas and the filtered gas.
3. The gas generator apparatus for health use of claim 2, further comprising a conversion valve, for coupling between the humidifier and the atomized/volatile gas mixing tank, wherein the conversion valve is adapted to selectively connect the humidifier to the atomized/volatile gas mixing tank, so that the atomized gas and the filtered gas is mixed to produce the health gas and is adapted to selectively disconnect the humidifier from the atomized/volatile gas mixing tank, so that the filtered gas is directly output for being inhaled by a user.
4. The gas generator apparatus for health use of claim 2, wherein the atomized/volatile gas mixing tank further comprises an oscillator for atomizing or vaporizing a liquid to produce the atomized gas.
5. The gas generator apparatus for health use of claim 4, adapted for use with the liquid selected from a group consisting of an essential oil, a medicinal liquid, pure water and a combination thereof.

6. The gas generator apparatus for health use of claim 5, wherein the atomized/volatile gas mixing tank is adapted to contain a base liquid, and for the liquid to reside on top of the base liquid and the oscillator to be set below the base liquid.
7. The gas generator apparatus for health use of claim 4, wherein the gas mixing system is configured to selectively output the filtered gas or the health gas by turning on or turning off the oscillator.
8. A gas generator apparatus for health use, comprising:
    an electrolysis device for electrolyzing water to produce a gas mixture including hydrogen and oxygen; and
    a gas mixing system, for coupling to the electrolysis device to receive the gas mixture and mix the gas mixture with an atomized gas to produce a health gas, wherein the atomized gas is a water vapor, an atomized medicinal liquid, a volatile essential oil, or a combination of any two or three of the water vapor, the atomized medicinal liquid and the volatile essential oil.
9. The gas generator apparatus for health use of claim 8, further comprising a flow meter for coupling to the electrolysis device for detecting the flow rate of the gas mixture and controlling the quantity of the gas mixture produced from the electrolysis device.
10. The gas generator apparatus for health use of claim 9, wherein the flow meter is adapted to cut off electric voltage or electric current supplied to the electrolysis device.
11. The gas generator apparatus for health use of claim 8, further comprising a flow controller for coupling to the electrolysis device to control the flow rate of the gas mixture flowing into the gas mixing system.
12. The gas generator apparatus for health use of claim 8, further comprising a gas feeding element for coupling between the electrolysis device and the gas mixing system to feed a gas to the gas mixture, thereby to reduce the concentration of hydrogen in the gas mixture, and adapted for use with the gas selected from a group consisting of air, water vapor, an inert gas, oxygen and a combination thereof.

13. The gas generator apparatus for health use of claim 12, adapted for the concentration of hydrogen in the health gas to range from 2% to 60%.
14. The gas generator apparatus for health use of claim 8, wherein the electrolysis device comprises two electrodes and the electrodes have interchangeable polarity.
15. The gas generator apparatus for health use of claim 8, wherein the gas mixing system comprises an atomized/volatile gas mixing tank which comprises an oscillator for atomizing or vaporizing a liquid to produce the atomized gas.
16. The gas generator apparatus for health use of claim 15, adapted for use with the liquid selected from a group consisting of an essential oil, a medicinal liquid, pure water, or a combination of any two or three of the essential oil, the medicinal liquid, and the pure water.