Claims

1. A cavitation generation ring configured to be housed in a part of a liquid communicating pipe,
wherein the cavitation generation ring has a plurality of protrusions protruding toward a center from an inner circumference of a cylindrical portion, the cylindrical portion constituting a liquid communication path of the liquid communication pipe, and
wherein liquid flows through the cavitation generation ring at high pressure and generates cavitation, thereby decomposing a molecule of the liquid.

2. An apparatus for producing carbon-based fuel, the apparatus comprising:
a petroleum decomposing device having the cavitation generation ring as set forth in claim 1 and being configured to decompose a molecule of petroleum;
a water decomposing device having the cavitation generation ring as set forth in claim 1 and being configured to decompose a molecule of water; and
a different-molecules composing device having the cavitation generation ring as set forth in claim 1 and being configured so that a mixture of the molecule of petroleum decomposed by the petroleum decomposing device and the molecule of water decomposed by the water decomposing device flows through the cavitation generation ring at high pressure, and generates cavitation, thereby carbon-based fuel is produced by composing the decomposed molecule of petroleum and the decomposed molecule of water.

3. A production method of carbon-based fuel, the production method comprising:
a petroleum decomposing step for decomposing a molecule of petroleum;
a water decomposing step for decomposing a molecule of water; and
a different-molecules composing step for composing the decomposed molecule of petroleum and the decomposed molecule of water,
wherein in the petroleum decomposing step, a first cavitation generation ring is housed in a part of a petroleum communication pipe and petroleum flows through the first cavitation generation ring at high pressure and generates cavitation, thereby decomposing the molecule of petroleum,
wherein in the water decomposing step, a second cavitation generation ring is housed in a part of a water communication pipe and water flows through the second cavitation generation ring at high pressure and generates cavitation, thereby decomposing the molecule of water,
wherein in the different-molecules composing step, a third cavitation generation ring is housed in a part of a pipe where the mixture of the decomposed molecule of water decomposed in the water decomposing step and the decomposed molecule of petroleum decomposed in the petroleum decomposing step flows, and the mixture flows through the third cavitation generation ring at high pressure and generates cavitation, thereby carbon-based fuel is produced by composing the

decomposed molecule of petroleum and the decomposed molecule of water, and

wherein the first cavitation generation ring, the second cavitation generation ring and the third cavitation generation ring comprise the cavitation generation ring as set forth in claim 1.

4. The production method of carbon-based fuel as set forth in claim 3, the method comprising a step of mixing gas and liquid for containing a lot of gas bubbles in water by mixing gas in the water communicating pipe before the process in the first cavitation generation ring,

   wherein the water containing gas bubbles flows at high pressure through the first cavitation generation ring and generates cavitation, thereby decomposing the molecule of water and decomposing the gas bubbles into nanosize.

5. The production method of carbon-based fuel as set forth in claim 3 or claim 4, wherein the different-molecules composing step further comprises a stabilizing step in which a product generated by composing the decomposed molecule of petroleum and the decomposed molecule of water flows through a magnetic mixer and molecule composition of the product is stabilized.

CLAIMS

1. An apparatus for producing carbon-based fuel, the apparatus comprising:

a petroleum decomposing device having a first cavitation generation ring and being configured to decompose a molecule of petroleum; the first cavitation generating ring being configured to be housed in a part of a liquid communication pipe, wherein the first cavitation generation ring has a plurality of protrusions protruding toward a center from an inner circumference of a cylindrical portion, the cylindrical portion constituting a liquid communication path of the liquid communication pipe, and wherein liquid flows through the first cavitation generation ring at high pressure and generates cavitation, thereby decomposing a molecule of the liquid;

a water decomposing device having a second cavitation generation ring and being configured to decompose a molecule of water; the second cavitation generating ring being configured to be housed in a part of a liquid communication pipe, wherein the second cavitation generation ring has a plurality of protrusions protruding toward a center from an inner circumference of a cylindrical portion, the cylindrical portion constituting a liquid communication path of the liquid communication pipe, and wherein liquid flows through the second cavitation generation ring at high pressure and generates cavitation, thereby decomposing a molecule of the liquid; and

a different-molecules composing device having a third cavitation generation ring and being configured so that a mixture of the molecule of petroleum decomposed by the petroleum decomposing device and the molecule of water decomposed by the water decomposing device flows through the third cavitation generation ring at high pressure, and generates cavitation, thereby carbon-based fuel is produced by composing the decomposed molecule of petroleum and the decomposed molecule of water, the third cavitation generating ring being configured to be housed in a part of a liquid communication pipe, wherein the third cavitation generation ring has a plurality of protrusions protruding toward a center from an inner circumference of a cylindrical portion, the cylindrical portion constituting a liquid communication path of the liquid communication pipe, and wherein liquid flows through the third cavitation generation ring at high pressure and generates cavitation, thereby decomposing a molecule of the liquid.

2. A production method of carbon-based fuel, the production method comprising: a petroleum decomposing step for decomposing a molecule of petroleum, a water decomposing step for decomposing a molecule of water; and a different-molecules composing step for composing the decomposed molecule of petroleum and the decomposed molecule of water,

wherein in the petroleum decomposing step, a first cavitation generation ring is housed in

a part of a petroleum communication pipe and petroleum flows through the first cavitation generation ring at high pressure and generates cavitation, thereby decomposing the molecule of petroleum,

wherein in the water decomposing step, a second cavitation generation ring is housed in a part of a water communication pipe and water flows through the second cavitation generation ring at high pressure and generates cavitation, thereby decomposing the molecule of water,

wherein in the different-molecules composing step, a third cavitation generation ring is housed in a part of a pipe where the mixture of the decomposed molecule of water decomposed in the water decomposing step and the decomposed molecule of petroleum decomposed in the petroleum decomposing step flows, and the mixture flows through the third cavitation generation ring at high pressure and generates cavitation, thereby carbon-based fuel is produced by composing the decomposed molecule of petroleum and the decomposed molecule of water, and

wherein the first cavitation generation ring, the second cavitation generation ring and the third cavitation generation ring are configured to be housed in a part of a liquid communication pipe, wherein each cavitation generation ring has a plurality of protrusions protruding toward a center from an inner circumference of a cylindrical portion, the cylindrical portion constituting a liquid communication path of the liquid communication pipe, and wherein liquid flows through the cavitation generation ring at high pressure and generates cavitation, thereby decomposing a molecule of the liquid.

3. The production method of carbon-based fuel as set forth in claim 2, the method comprising a step of mixing gas and liquid for containing a lot of gas bubbles in water by mixing gas in the water communication pipe before the step in the first cavitation generation ring,

wherein the water containing gas bubbles flows at high pressure through the first cavitation generation ring and generates cavitation, thereby decomposing the molecule of water and decomposing the gas bubbles into nanosize.

4. The production method of carbon-based fuel as set forth in claim 2 or 3,

wherein the different-molecules composing step further comprises a stabilizing step in which a product generated by composing the decomposed molecule of petroleum and the decomposed molecule of water flows through a magnetic mixer and molecule composition of the product is stabilized.