CLAIMS

[Claim 1]

A hydrogen generation unit for producing a hydrogen-containing liquid where the hydrogen generation unit is immersed in a liquid and hydrogen is made to be contained in the liquid, wherein

the hydrogen generation unit is configured such that a hydrogen generating agent which generates hydrogen by being impregnated with water, the water, and a non-flowout state maintaining unit which maintains the water in a non-flowout state where the water does not react with the hydrogen generating agent are accommodated in an accommodating body having a discharge unit for discharging a hydrogen gas,

the non-flowout state maintaining unit is configured to change the water in the non-flowout state into a flowout state where the water is reactable with the hydrogen generating agent by applying a predetermined amount of energy to the accommodating body from outside the accommodating body, and

the energy is heat, the water is frozen water, and the frozen water per se is configured to function as the non-flowout state maintaining unit,

whereby the water brought into the flowout state is made to react with the hydrogen generating agent by being triggered by application of the energy and hydrogen generated in the accommodating body is discharged through the discharge unit, and the hydrogen-containing liquid is produced without permeation of the liquid into the hydrogen generation unit.

[Claim 2]

A hydrogen generation unit for producing a hydrogen-containing liquid where the hydrogen generation unit is immersed in a liquid and hydrogen is made to be contained in the liquid, wherein

the hydrogen generation unit is configured such that a hydrogen generating agent which generates hydrogen by being impregnated with

water, the water, and a non-flowout state maintaining unit which maintains the water in a non-flowout state where the water does not react with the hydrogen generating agent are accommodated in an accommodating body having a discharge unit for discharging a hydrogen gas,

the non-flowout state maintaining unit is configured to change the water in the non-flowout state into a flowout state where the water is reactable with the hydrogen generating agent by applying a predetermined amount of energy to the accommodating body from outside the accommodating body, and

the energy is heat, the water is gelled water, and the gelled water per se is configured to function as the non-flowout state maintaining unit,

whereby the water brought into the flowout state is made to react with the hydrogen generating agent by being triggered by application of the energy and hydrogen generated in the accommodating body is discharged through the discharge unit, and the hydrogen-containing liquid is produced without permeation of the liquid into the hydrogen generation unit.

[Claim 3]

A hydrogen generation unit for producing a hydrogen-containing liquid where the hydrogen generation unit is immersed in a liquid and hydrogen is made to be contained in the liquid, wherein the hydrogen generation unit is configured such that a hydrogen generating agent which generates hydrogen by being impregnated with water, the water, and a non-flowout state maintaining unit which maintains the water in a non-flowout state where the water does not react with the hydrogen generating agent are accommodated in an accommodating body having a discharge unit having a hole for discharging a hydrogen gas to the outside,

the accommodating body is input to freely flow in the liquid, and the non-flowout state maintaining unit is configured to change the water in the non-flowout state into a flowout state where the water is reactable

with the hydrogen generating agent by applying a pressure generated when the accommodating body is pressed by a finger from outside the accommodating body,

whereby the water brought into the flowout state is made to react with the hydrogen generating agent by being triggered by application of the pressure and hydrogen generated in the accommodating body is discharged through the discharge unit, and the hydrogen-containing liquid is produced without permeation of the liquid into the hydrogen generation unit.

[Claim 4]

The hydrogen generation unit according to claim 3, wherein the accommodating body is made of a flexible synthetic resin material, the discharge unit has a hydrogen discharge port formed of a tubular narrowed passage, the hydrogen generating agent, the water, the non-flowout state maintaining unit, and a penetrating member to accommodate an accommodating chamber for communicating with the hydrogen discharge part,

the non-flowout state maintaining unit is a flexible partitioned chamber which accommodates the water in a non-flowout state by hermetically accommodating the water, and the partitioned chamber includes an easy-to-break portion which brings the water into a flowout state by discharging the water stored in the partitioned chamber,

the penetrating member has a penetrating projection having a sharpened distal end,

the accommodating chamber accommodates the penetrating projection opposedly facing the easy-to-break portion,

the penetrating projection breaks the easy-to-break portion by applying a predetermined amount of pressure generated when the accommodating body is pressed by a finger, whereby the water brought into the flowout state reacts with the hydrogen generating agent and hydrogen generated is discharged through the discharge unit, and the hydrogen-containing liquid is produced without permeation of the liquid

into the hydrogen generation unit.

[Claim 5]

The hydrogen generation unit according to claim 4, wherein the accommodating chamber is formed such that an upper side wall which communicates with the tubular narrowed passage is formed into a recessed shape as viewed in a front view, and a lower end portion of the tubular narrowed passage is made to communicate with a bottom portion of the recessed shape.