CLAIMS

1. An appliance for producing and dispensing of a reconstituted malt based fermented beverage, the appliance comprising

a malt based fermented beverage concentrate inlet (8) fluidly connected to a source of a malt based fermented beverage concentrate;

a water inlet (2) fluidly connected to a source of pressurized water;

a pressurized gas inlet (1) fluidly connected to a source of pressurized gaseous carbon dioxide;

an in-line carbonation unit (4) having a water inlet that is fluidly connected to the water inlet (2) and a pressurized gas inlet that is fluidly connected to the pressurized gas inlet (1), in which the gaseous carbon dioxide is introduced and dissolved in the water to produce a carbonated water; and

a mixing unit (9) fluidly connected to a carbonated water outlet of the in-line carbonation unit (4) and the malt based fermented beverage concentrate inlet (8), in which the carbonated water and the malt based fermented beverage concentrate are mixed to produce a reconstituted malt based fermented beverage;

wherein the in-line carbonation unit (4) further comprises a sparger by which the gaseous carbon dioxide is introduced as small gaseous bubbles and in the water; and

a static mixer is provided downstream of the in-line carbonation unit (4) and upstream of the mixing unit (9).

2. An appliance according to claim 1, wherein the reconstituted malt based fermented beverage has a foam with a height of at least 6 mm and a half life of greater than 15 seconds.

3. An appliance according to claim 1 or 2, wherein the gaseous bubbles have an average major dimension at the carbonated water outlet of the carbonation unit (4) of less than 0,75mm, preferably less than 0,50 mm, or highly preferably between 0,25 and 0,75 mm.

4. An appliance according to any one of claims 1-3, wherein the carbonated water contains the gaseous carbon dioxide in an amount of between 5g/L and 10g/L at a carbonated water inlet of the mixing unit (9).

5. An appliance according to any one of claims 1-4, further comprising a liquid line (6) and a flow rate controller regulating a flow rate through the liquid line and whereby the flow rate controller regulates the residence time of the carbonated water such as to maintain the gaseous carbon dioxide dissolved in the water.

6. An appliance according to claim 5, further comprising a gas pressure regulating means for varying the gaseous carbon dioxide at the pressurized gas inlet of the carbonation unit (4) and a water pressure control unit allowing to control the pressure on the water at the water inlet of the carbonation unit and/or in the liquid line.

7. An appliance according to claim 6, wherein the water pressure control unit allows the pressure in the liquid line to maintain the gaseous carbon dioxide dissolved in the water.

8. An appliance according to any one of claims 1-7, wherein the water is pressurized up to 6 bar.

9. An appliance according to any one of claims 1-8, wherein the carbonation unit (4) is adapted to the portion-wise carbonation of water.

10. An appliance according to any one of claims 1-9, further comprising a cooling unit in which the water is cooled before carbonation.

11. An appliance according to any one of claims 1-10, further comprising a reservoir for gaseous carbon dioxide with communication that, in the carbon dioxide-reservoir stored gaseous carbon dioxide is introduced into the water.

12. An appliance according to any one of claims 1-11 is a domestic appliance.

13. An appliance according to any one of claims 1-12, wherein the reconstituted malt based fermented beverage has a volume ratio of the carbonated water to the malt based fermented beverage concentrate of at least 3:1.

14. An appliance according to any one of claims 1-13, wherein the carbonated water is subsequently mixed with a multi variable serving of the malt based fermented beverage concentrate.