CLAIMS

1. A device (100;200) for heating and concomitantly administering a liquid, comprising:

– a body (130;234), which includes at opposite ends:

• a base (136;236), and

• a neck (137;237), which can be connected to liquid suction means (120;220);

– liquid heating means (154;254), e.g. powered by a battery included in said body (130;234);

– said body (130;234) comprises an inner housing (135;234B) configured and adapted to receive and completely enclose a pre-packaged liquid container (140;240);

– said inner housing (135; 234B) comprises fluidic connection means (132,133;233) for the fluidic connection with said liquid container; and

– said fluidic connection means (132,133;233) comprise one or more sharp spouts for puncturing a predetermined region of and for the fluidic connection with said pre-packaged liquid container (140;240);

the device being characterized in that:

– said neck (137,237) comprises one or more tubes (151,156;252) adapted to fluidically connect said fluidic connection means (132,133;233) to said suction means (120;220);said heating means (154;254) are adapted to heat at least partially said one or more tubes (151,156;252);

– at least a first temperature sensor is included, configured and adapted to detect a temperature of at

least one portion of said one or more tubes (151,156;252); said suction means (120;220), when connected, form a chamber (120;220) between them and said neck (137,137B;237), the chamber being configured to receive said liquid, at least a second temperature sensor configured and adapted to detect a temperature of the liquid and/or of said chamber being present in said chamber; and

- a control logic is comprised, which is adapted to detect the temperature of said first and/or second temperature sensor and control the activation of said heating means (154;254).

2. A device (100;200) according to claim 1, wherein said control logic is configured and adapted to send temperature information to a user signaling device which is integrated on said body (130;234) and/or wirelessly connected to said control logic.

3. A device (100) according to one or more of the claims from 1 to 3, wherein said one or more tubes (151,156) comprise a helical portion which runs about a predetermined axis, wherein said heating means are arranged inside and/or outside the helical portion, but inside said neck (137).

4. A device (100) according to claim 3, wherein said heating means comprise two or more cylinder portions (154) within said helical portion, wherein said one or more tubes (156) pass between two of said two or more cylinder portions (154) and end in an outlet element (153) in said suction means (120) along said predetermined axis, e.g. overhanging with respect to the

~~cylinder portions.~~

~~**5.** A device (100;200) according to one or more of the preceding claims, wherein said suction means (120;220) comprise an infant teat.~~

~~**6.** A device (100) according to one or more of the preceding claims, wherein said fluidic connection means (132,133) comprise one or more first sharp spouts for the puncturing of and the fluidic connection to said pre-packaged liquid container (140), and one or more second sharp spouts (132) for puncturing said pre-packaged liquid container (140) and for forming an outside air inlet.~~

~~**7.** A device (100;200) according to one or more of the preceding claims, wherein said inner housing (135;234B) can be at least partially closed by closing means (131;236), e.g. by a sliding wall or a cover.~~

~~**8.** A device (100) according to one or more of the preceding claims, wherein said closing means (131,136;236) are configured to push, in use, said liquid container (140;240) against said one or more sharp spouts (132,133;233) until it is punctured.~~

~~**9.** A device (100;200) according to one or more of the preceding claims, wherein said inner housing (135;245) comprises a removable frame (245) configured to accommodate said pre packaged liquid container (140;240).~~

~~**10.** A device (100;200) according to one or more of the preceding claims, wherein said one or more sharp spouts (132,133;233) are fluidically connected to the outside of the device through at least one vent duct (233S).~~

~~**11**. A liquid container (140,240) to be used in the device (100;200) according to one or more of the claims from 1 to 10, the liquid container (140, 240) comprising one or more container wall portions (141, 142) of lesser thickness or different composition so as to be punctured by the fluidic connection means (132,133;233) of the device (100;200). .~~

~~**12**. A container according to claim 12, wherein the container is a Tetrapak®, and wherein the puncturable wall portions (141,142;241) do not have the cardboard lining of the Tetrapak®.~~

~~**13**. A method for administering a liquid, characterized in that it comprises the following steps of:~~

~~A. providing a liquid administering device (100,200) according to one or more of the claims from 1 to 10, comprising liquid heating means (154,254);~~

~~B. providing a liquid container (140) according to one or more of the claims from 11 to 12;~~

~~C. inserting said pre-packaged liquid container (140,240) into said liquid administering device (100,200);~~

~~D. fluidically connecting said pre-packaged liquid container (140,240) to said liquid administering device (100,200);~~

~~E. activating said liquid heating means (154;254); and~~

~~F. administering said liquid.~~

14. A kit (100,200,1000) for administering a liquid by an administering device and for sanitizing the administering device, comprising:

- A administering device (100;200) for heating and concomitantly administering a liquid;
- A sanitizing device (1000) for said device (100;200);

Wherein the device (100;200) comprises:

- a body (130;234), which includes at opposite ends a base (136;236), and a neck (137;237), which can be connected to liquid suction means (120;220);
- liquid heating means (154;254);
- said body (130;234) comprises an inner housing (135;234B) configured and adapted to receive and completely enclose a pre-packaged liquid container (140;240);
- said inner housing (135; 234B) comprises fluidic connection means (132,133;233) for the fluidic connection with said liquid container; and
- said fluidic connection means (132,133;233) comprise one or more sharp spouts for puncturing a predetermined region of and for the fluidic connection with said pre-packaged liquid container (140;240);
- said neck (137,237) comprises one or more tubes (151,156;252) adapted to fluidically connect said fluidic connection means (132,133;233) to said suction means (120;220);
- said heating means (154;254) are adapted to heat at least partially said one or more tubes (151,156;252);
- at least a first temperature sensor is included,

configured and adapted to detect a temperature of at least one portion of said one or more tubes (151,156;252);

- said suction means (120;220), when connected, form a chamber (120;220) between them and said neck (137,137B;237), the chamber being configured to receive said liquid, at least a second temperature sensor configured and adapted to detect a temperature of the liquid and/or of said chamber being present in said chamber; and
- a control logic is comprised, which is adapted to detect the temperature of said first and/or second temperature sensor and control the activation of said heating means (154;254);

And wherein the sanitizing device (1000) comprises:

- a base (300) with:
  - a portion (350) configured for at least partially inserting a sanitizing liquid container (400) from outside the base (300);
  - an opening for the connection only with the neck (137;237) when connected to the liquid suction means (120;220) and detached from the body (130;234) of the liquid administering device (100;200);
- a protective dome (500) for said neck (137;237) and liquid suction means (120;220);
- a connecting flange (600) for connecting said base (300), said neck (137;237) and said dome (500) together;

- one or more fluidic connection ducts (380,360,366) between said sanitizing liquid container (400) and said neck (137;237); and
- liquid heating means (370) at least partially along said one or more fluidic connection ducts (380,360,233);

wherein said one or more fluidic connection ducts (380,360,366) comprise one or more end connection portions (366) adapted to receive an end portion of said one or more spouts, respectively, so as to form a gap (367) therewith for sanitizing the outer surface of said one or more spouts.

~~15~~2. A kit (100,200,1000) ~~—~~according to claim 1~~4~~, wherein said dome (500) has a first wall (520) and a second wall (530) connected to and inside the first wall, which form a gap (550) therebetween.

~~16~~3. A kit (100,200,1000) according to claim ~~15~~2, wherein said suction means (120;220) have a perforated tip (121,221) and said second wall (530) has an opening through which, in use, a portion of the perforated tip (121;221) emerges, said gap (550) being a gap enclosed between the perforated tip, the first wall (520) and the second wall (530).

~~17~~4. A kit (100,200,1000) according to one or more of the claims from 1~~4~~ to ~~16~~3, wherein the portion (350) for at least partially inserting a sanitizing liquid container (400) has an insertion opening for the insertion of said sanitizing liquid container (400), the insertion opening being opposite to a supporting base of

the device (1000).

~~18~~5. A kit (100,200,1000) according to one or more of the claims from ~~15~~2 to ~~17~~4, when depending on claim ~~15~~2, wherein the dome (500) includes a vent valve (510) on the first wall (520).