Claims

1. A small-volume liquid container for dispensing a liquid medium, especially biological medium, into a bioprocessing system, especially into a bioreactor, wherein the liquid container (1) provides an accommodation volume (2) for the liquid medium,

wherein the liquid container (1) comprises two dimensionally stable container parts (6, 7), which are movable relative to one another between an initial position and an end position, and an outlet connection (8) for discharge of the liquid medium,

wherein the liquid container (1) comprises a shape-changeable delimitation means (9) which at least sectionally delimits the accommodation volume (2) and which is connected to the dimensionally stable container parts (6, 7) in such a way that a relative movement of the dimensionally stable container parts (6, 7) to one another, causing a change in volume of the accommodation volume (2), is associated with a change in shape of the delimitation means (9),

characterized

in that, in the end position, one dimensionally stable container part (6) is held in a form-fitting manner on the other dimensionally stable container part (7) in the direction of the initial position.

2. The liquid container as claimed in claim 1, characterized in that the delimitation means (9) substantially completely delimits the accommodation volume (2) by itself or in that the delimitation means (9) at least substantially delimits the accommodation volume (2) together with at least one of the dimensionally stable container parts (6, 7), preferably with both dimensionally stable container parts (6, 7).

3. The liquid container as claimed in claim 1 or 2, characterized in that the delimitation means (9) is a bellows (11), preferably concertina bellows, a tube (12) or a membrane.

4. The liquid container as claimed in any of the preceding claims, characterized in that the delimitation means (9) is arranged or arrangeable between the dimensionally stable container parts (6, 7).

5. The liquid container as claimed in any of the preceding claims, characterized in that the delimitation means (9) is inserted in at least one of the dimensionally stable container parts (6, 7) and/or between both dimensionally stable container parts (6, 7) in a detachable manner, especially in a form-fitting manner, or in that the delimitation means (9) is connected to at least one of the dimensionally stable container parts (6, 7), preferably to both dimensionally stable container parts (6, 7), in a permanent manner, especially in a cohesive manner.

6. The liquid container as claimed in any of the preceding claims, characterized in that the dimensionally stable container parts (6, 7) are movable toward one another in a linear manner, preferably in that the dimensionally stable container parts (6, 7) form a cylinder-piston arrangement (13).

7. The liquid container as claimed in any of the preceding claims, characterized in that the dimensionally stable container parts (6, 7) are connected to one another via a pivot connection so as to be pivotable relative to one another, preferably in that at least one of the dimensionally stable container parts (6, 7),

preferably both dimensionally stable container parts (6, 7), are plate-shaped or pan-shaped.

8. The liquid container as claimed in any of the preceding claims, characterized in that, in the end position, one dimensionally stable container part (6) is held latched on the other dimensionally stable container part (7) in the direction of the initial position.

9. The liquid container as claimed in any of the preceding claims, characterized in that the outlet connection (8) is formed on the delimitation means (9) and/or on one of the dimensionally stable container parts (6, 7), preferably in that a filling connection (16) for filling of the accommodation volume (2) with the liquid medium is provided on the delimitation means (9) and/or on the dimensionally stable container part (6, 7).

10. The liquid container as claimed in any of the preceding claims, characterized in that a piece of tubing (17a) or tube is coupled to the outlet connection (8) and/or a piece of tubing (17b) or tube is coupled to the filling connection (16), preferably in that the end of the piece of tubing (17a, 17b) or tube that is pointing away from the liquid container (1) is sealed, especially heat-sealed.

11. The liquid container as claimed in any of the preceding claims, characterized in that the accommodation volume (2) is filled with a liquid medium, preferably in that the amount of the liquid medium in the accommodation volume is up to 50 ml, preferably up to 40 ml, more preferably up to 30 ml, more preferably up to 20 ml, more preferably up to 10 ml and more preferably up to 5 ml.

12. The liquid container as claimed in any of the preceding claims, characterized in that one of the dimensionally stable container parts (6, 7) or both dimensionally stable container parts (6, 7) have in each case a projection (18) which, in the end position after the relative movement of the dimensionally stable container parts (6, 7) to one another that causes the change in volume of the accommodation volume (2), projects into the space which is laterally delimited by the material of the delimitation means (9).

13. A packaging arrangement comprising a package (4) and, sterile-packed therein,

a small-volume liquid container (1) for dispensing a liquid medium, especially biological medium, into a bioprocessing system, especially into a bioreactor, wherein the liquid container (1) provides an accommodation volume (2) for the liquid medium, wherein the liquid container (1) comprises two dimensionally stable container parts (6, 7), which are movable relative to one another between an initial position and an end position, and an outlet connection (8) for discharge of the liquid medium, wherein the liquid container (1) comprises a shape-changeable delimitation means (9) which at least sectionally delimits the accommodation volume (2) and which is connected to the dimensionally stable container parts (6, 7) in such a way that a relative movement of the dimensionally stable container parts (6, 7) to one another, causing a change in volume of the accommodation volume (2), is associated with a change in shape of the delimitation means (9), wherein in the end position, one dimensionally stable container part (6) is held in a form-fitting manner on the other dimensionally stable container part (7) in the direction of the initial position.

14. Use of a sterile-packed liquid container (1) as claimed in any of claims 1 to 12 and/or a packaging arrangement (3) as claimed in claim 13 for the addition of a liquid medium, especially biological medium, into a bioprocessing system, especially into a bioreactor.

15. The use as claimed in claim 14, characterized in that at least the delimitation means (9), preferably also at least one of the dimensionally stable container parts (6, 7), especially both dimensionally stable container parts (6, 7), and/or the piece(s) of tubing (17a, 17b) or tube(s), especially as a single-use component (5), is/are at least partially, preferably at least predominantly, made of a plastics material, preferably of a silicone material and/or of a polymer material, especially polyethylene, polypropylene, polytetrafluoroethylene, polybutylene terephthalate, polysulfone, polyethersulfone and polycarbonate.