

CLAIMS

1. A beverage preparation machine (1), comprising :
- a machine housing (2) for enclosing machine functional elements (6), which machine functional elements (6) include at least liquid circulation pipes, a liquid pump, a liquid heater, and a beverage brewing chamber, and
 - a liquid tank (7) detachably arranged to move along a movement axis in order to be, in an inserted position, functionally inserted entirely within the machine housing (2) such that liquid can be delivered by use of the liquid pump from the liquid tank (7) via the liquid circulation pipes and the liquid heater to the beverage brewing chamber for mixing the liquid with a beverage ingredient contained therein to prepare a beverage,
- wherein the machine housing (2) comprises a first opening (51) and a second opening (41), which are located on opposite wall portions (4, 5) of the machine housing (2), and wherein, when the liquid tank (7) is in the inserted position, the first opening (51) is arranged to expose a part of the liquid tank (7) such that pushing said exposed part of the liquid tank (7) moves the liquid tank (7) along the movement axis and out of the inserted position through said second opening (41).
2. The beverage preparation machine (1) according to claim 1, wherein the wall portions (4, 5) are lateral wall portions.
3. The beverage preparation machine (1) according to claim 1 or 2, wherein the movement axis extends parallel or oblique to the horizontal, when the beverage preparation machine (1) is arranged to prepare a beverage.
4. The beverage preparation machine (1) according to any one of the preceding claims, wherein the liquid tank (7) does not protrude from the machine housing (2), when the liquid tank (7) is in the inserted position, and/or wherein the liquid tank (7) comprises one or more lateral ends (71, 72), wherein at least one of the one or more lateral ends (71, 72) is at least in part flush with the machine housing (2), such as with one of the wall portions (4, 5) or with the wall portions (4, 5), respectively, when the liquid tank (7) is in the inserted position.
5. The beverage preparation machine (1) according to any one of the preceding claims, wherein the machine housing (2) comprises a front and a back, and wherein the liquid tank (7) is arranged to be inclined towards the back, when the liquid tank (7) is in the inserted position.

6. The beverage preparation machine (1) according to any one of the preceding claims, wherein the machine housing (2) comprises a channel (8) that is arranged at least partially inside of the machine housing (2) to receive the liquid tank (7), and wherein the channel (8) is preferably adapted to define the movement axis, and/or wherein, preferably, the channel (8) is at least in part complementary formed to at least part of the liquid tank (7).

7. The beverage preparation machine (1) according to any one of the preceding claims, further comprising a first connector (9) arranged at least partially in the machine housing (2) and a second connector (10) arranged at least partially on the liquid tank (7), wherein, in the inserted position of the liquid tank (7), the first connector (9) and the second connector (10) are connected to one another for delivering liquid from the liquid tank (7), wherein the first connector (9) comprises a distal end (91) with a connection opening (93), wherein the first connector (9) is arranged such that the connection opening (93) opens in a direction, which is parallel to the movement axis.

8. The beverage preparation machine (1) according to claim 7, wherein the first connector (9) and/or the second connector (10) comprises one or more sealing elements (11), such as one or more radial sealing elements, wherein the one or more sealing elements (11) are arranged to cooperate with the respective other connector (9; 10) for tightly connecting the connectors (9, 10) with one another, when the liquid tank (7) is in the inserted position.

9. The beverage preparation machine (1) according to claim 7 or 8, wherein the second connector (10) comprises a valve (12) adapted to move between a closed position and an open position, wherein the first connector (9) is arranged to move the valve (12) into the open position, when the liquid tank (7) is moved into the inserted position, in order to connect the first connector (9) with the second connector (10) for delivering liquid from the liquid tank (7).

10. The beverage preparation machine (1) according to any one of claims 7 to 9, wherein the second connector (10) comprises a socket (16) for receiving at least part of the first connector (9), wherein the one or more sealing elements (11) are arranged on the socket (16), and/or wherein a seal seat (15), on which the valve (12) sits when the valve is in the closed position, is arranged on the socket (16).

11. The beverage preparation machine (1) according to claim 10, wherein the socket (16) comprises a socket opening (17), through which the at least part of the first connector (9) can

enter the socket (16) for being received in the socket (16), wherein the seal seat (15) is further distanced from the socket opening (17) than the one or more sealing elements (11).

12. The beverage preparation machine (1) according to any one of the preceding claims,
5 wherein the liquid tank (7) comprises a transparent part (76) and an opaque part (77),
wherein, when the liquid tank (7) is in the inserted position and when viewed at least along
the movement axis, the opaque part (77) is arranged to obstruct a view onto one or more
parts arranged inside of the machine housing (2), such as onto the first connector (9) and/or
the second connector (10).
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13. The beverage preparation machine (1) according to any one of the preceding claims,
wherein the machine functional elements (6) are arranged in the machine housing (2).
14. The beverage preparation machine (1) according to any one of the preceding claims,
15 wherein at least part of the machine functional elements (6) span a space (60), and wherein
the liquid tank (7) is at least partially arranged inside of the space (60), when the liquid tank
(7) is in the inserted position.
15. The beverage preparation machine (1) according to any one of the preceding claims,
20 wherein the machine functional elements (6) comprise one or more of the following: a
brewing chamber, a brewing unit, a liquid heater, a control unit, a liquid pump, a capsule
holder, one or more liquid circulation pipes, electronics, and combinations thereof.