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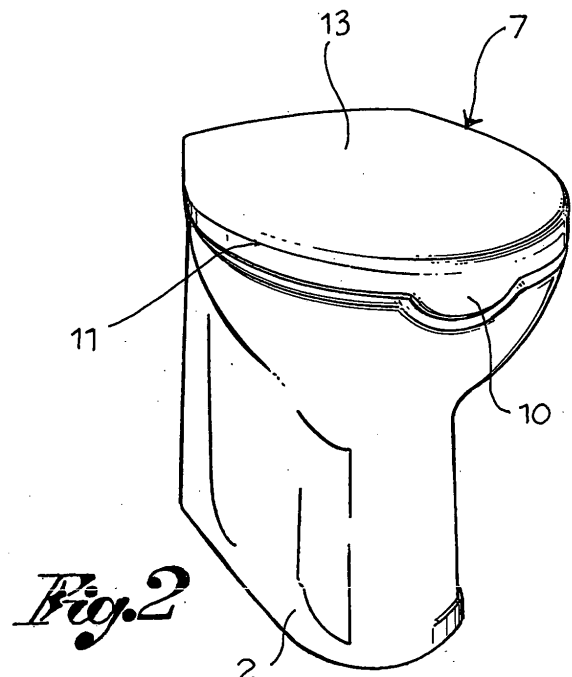
(54) **Hygienic-sanitary set**

(57) The present invention relates to a hygienic-sanitary set comprising a toilet bowl for the execution of physiological functions, having an annular wall delimiting an internal flushing space.

The annular wall has a free rim comprising a recess.

The hygienic-sanitary set comprises a toilet lid associable to the toilet bowl to limit access to the internal flushing space.

Furthermore, the toilet lid comprises closing means suitable for overlapping the recess for closing it at least partially.



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Description

[0001] The present invention relates to a hygienic-sanitary set comprising a toilet bowl and toilet lid.

[0002] Toilets for the execution of physiological functions are well known in the art, having an annular wall which defines an internal flushing space, and a toilet lid, movable from an open position, wherein use of the toilet is possible, to a closed position, wherein it closes at least partially the inner space. In some types of toilet bowls, for example in the type suitable for facilitating the use by disabled persons, the annular wall usually has a recess positioned on the front on the free rim.

[0003] The known devices have however a plurality of drawbacks.

[0004] For example the toilet lid, when placed in the closed position, does not close the recess so that, when the sanitary fitment is not used, a portion of the annular wall remains open, allowing the passage of odours.

[0005] It is therefore clear that the presence of the recess on one hand facilitates the use of the toilet bowl by a disabled person, on the other hand does not allow the efficient containment within the toilet bowl of foul odours.

[0006] The purpose of the present invention is therefore to solve the known technical problems and, in particular, those mentioned herein before.

[0007] This purpose is achieved by a hygienic-sanitary set according to claim 1.

[0008] Further advantages may be achieved with the supplementary features of the dependent claims.

[0009] The object of the present invention will now be described in detail, with the aid of the attached figures, showing:

[0010] - figures 1 and 2 a hygienic-sanitary set according to the present invention, according to a possible embodiment, in the position of use and non-use respectively;

[0011] - figures 3 and 4 a frontal and lateral view of a toilet lid according to the embodiment of figures 1 and 2.

[0012] With reference to the above figures, reference numeral 1 globally indicates a hygienic-sanitary set.

[0013] The hygienic-sanitary set 1 comprises a toilet bowl 2 for the execution of physiological functions having an annular wall 3 defining an internal flushing space 4.

[0014] Furthermore, the annular wall 3 has a free rim 5 comprising a recess 6.

[0015] In other words, the free rim 5 comprises a concave portion which forms the recess 6, so that the free rim 5 displays a seating section the surface of which lies on a plane and wherein the mentioned concave portion is positioned below the seating section.

[0016] The hygienic-sanitary set 1 also comprises a toilet lid 7, associable to the toilet bowl 2 to limit access to the internal flushing space 4.

[0017] Preferably, the toilet lid 7 is operatively connected to the toilet bowl 2, for example the toilet lid 7 is hinged to the toilet bowl 2.

[0018] In other words, the toilet lid 7 is connected to the toilet bowl 2 in a way to be movable from a vertical

or use position of the toilet bowl 2 to a horizontal or non-use position.

[0019] According to a further form of embodiment, the toilet lid 7 is reversibly detachable from the toilet bowl 2 so that it can be easily washed and repositioned to close at least partially the toilet bowl 2.

[0020] Furthermore, the toilet lid 7 comprises closing means suitable for overlapping the recess 6 for closing it at least partially.

[0021] Preferably, the closing means completely overlap the recess 6.

[0022] In other words, the closing means of the toilet lid 7 make it possible to close the toilet bowl 2 completely in order to avoid foul odours from escaping from the flushing space.

[0023] According to a possible embodiment, the set 1 also comprises a seating board 8 suitable for overlapping the free rim 5 to cover it and create a seat.

[0024] Preferably, the seating board 8 comprises two lateral wings 9', 9" along the seating section. These wings 9', 9" are disconnected at the concave portion of the toilet bowl 2.

[0025] Even more preferably, the toilet lid 7 is hinged to the seating board 8.

[0026] According to a preferred embodiment, the closing means comprise a closing portion 10 suitable for closing at least partially the recess 6.

[0027] In other words, the toilet lid is formed of an essentially flat board 13, suitable to be placed on the free rim of the toilet bowl to cover its opening. From said board 13, the closing portion 10 projects, in a manner to be positioned in the part which surmounts the recess.

[0028] In this manner, the closing portion 10 is positioned in the recess 6 inside the thickness of the wall, when the toilet lid 7 is in the non-use position.

[0029] According to further embodiments, the closing portion 10 is one-pieced with the toilet lid 7 and/or has a shape that is complementary to the recess 6.

[0030] According to the forms of embodiment wherein the toilet lid 7 is hinged, the closing portion 10 is preferably positioned on a free-end portion of the toilet lid 7.

[0031] Preferably, the closing portion 10 is situated in a central position on the plane of symmetry of the toilet lid 7.

[0032] According to a possible embodiment, the toilet lid 7 also comprises a circumferential rim 11 projecting orthogonally towards the seating section, when the toilet lid 7 is in the non-use position.

[0033] Preferably, when the toilet lid 7 is in the non-use position, the circumferential rim 11 is suitable for housing at least partially the seating board 8, in the embodiments foreseeing it.

[0034] According to a further embodiment, the toilet lid 7 comprises at least one grip portion 12 suitable for facilitating the movement and/or handling of the toilet lid 7.

[0035] Preferably, the grip portion 12 is situated on the free-end portion of the toilet lid 7.

[0036] Even more preferably, the closing means, the

seating board 8 and/or the toilet lid 7 are in a plastic material.

[0037] Innovatively, the set of the present invention makes it possible to confine foul odours, so that it increases the level of hygiene of the room the sanitary is located into.

[0038] Advantageously, the set of the present invention permits a considerable ease of use of the toilet bowl, even by people with limited physical mobility, such as the elderly or disabled persons.

[0039] A man skilled in the art may operate numerous modifications, adjustments and substitutions of elements with others functionally equivalent, to the embodiments of the set described in order to satisfy contingent requirements, all moreover contained within the sphere of protection defined by the following claims.

[0040] Each of the features described as belonging to a possible form of embodiment may be realised independently from the other described embodiments.

Claims

1. Hygienic-sanitary set (1) comprising:

- a toilet bowl (2) for the execution of physiological functions, comprising an annular wall (3) delimiting an internal flushing space (4), said annular wall (3) having a free rim (5) comprising a recess (6); and
- a toilet lid (7), associable to the toilet bowl (2) to limit access to the internal flushing space (4),

said set (1) being **characterised in that** the toilet lid (7) also comprises closing means suitable for overlapping the recess (6) for closing it at least partially.

2. Set (1) according to claim 1, wherein the free rim (5) comprises a concave portion which forms the recess (6).
3. Set (1) according to claim 2, wherein the free rim (5) displays a seating section whose surface lies on a plane and wherein said concave portion is positioned below the seating section.
4. Set (1) according to any of the previous claims, wherein the toilet lid (7) is operatively connected to the toilet bowl (2).
5. Set (1) according to any of the previous claims, wherein the toilet lid (7) is hinged to the toilet bowl (2).
6. Set (1) according to any of the previous claims, wherein the toilet lid (7) is connected to the toilet bowl (2) in a way to be movable from a vertical or use position of the toilet bowl (2) to a horizontal or non-use position.

7. Set (1) according to any of the previous claims, also comprising a seating board (8) suitable for overlapping the free rim (5) to cover it.

8. Set (1) according to claims 3 and 7, wherein the seating board (8) comprises two lateral wings (9', 9'') along the seating section, said wings (9', 9'') being disconnected at the concave portion of the toilet bowl (2).

9. Set (1) according to any of the claims from 1 to 5 and 7 or 8, wherein the toilet lid (7) is hinged to the seating board (8).

10. Set (1) according to any one of the previous claims, wherein the closing means comprise a closing portion (10) suitable for closing at least partially the recess (6).

11. Set (1) according to any of the claims from 1 to 5 or from 7 to 10 and according to claim 6, wherein the closing portion (10) is positioned in the recess (6) inside the thickness of the wall, when the toilet lid (7) is in the non-use position.

12. Set (1) according to any of the previous claims, wherein the closing portion (10) is one-pieced with the toilet lid (7).

13. Set (1) according to any of the previous claims, wherein the closing portion (10) has a shape that is complementary to the recess (6).

14. Set (1) according to one of the claims 5 or 9, wherein the closing portion (10) is positioned on a free-end portion of the toilet lid (7).

15. Set (1) according to any of the previous claims, wherein the closing portion (10) is situated in a central position on the plane of symmetry of the toilet lid (7).

16. Set (1) according to any of the previous claims and according to claim 3, wherein the toilet lid (7) also comprises a circumferential rim (11) projecting orthogonally towards the seating section, when the toilet lid (7) is in the non-use position.

17. Set (1) according to any of the previous claims, wherein the toilet lid (7) comprises at least one grip portion (12) suitable for facilitating the movement and/or handling of the toilet lid (7).

18. Set (1) according to claim 17 and according to claims 5 or 8, wherein the grip portion (12) is positioned on the free-end portion of the toilet lid (7).

19. Set (1) according to one of the claims from 7 to 9

and 16, wherein the circumferential rim (11) is suitable for housing at least partially the seating board (8).

- 20.** Set (1) according to any of the previous claims, wherein closing means, the seating board (8) and/or the toilet lid (7) are in a plastic material.

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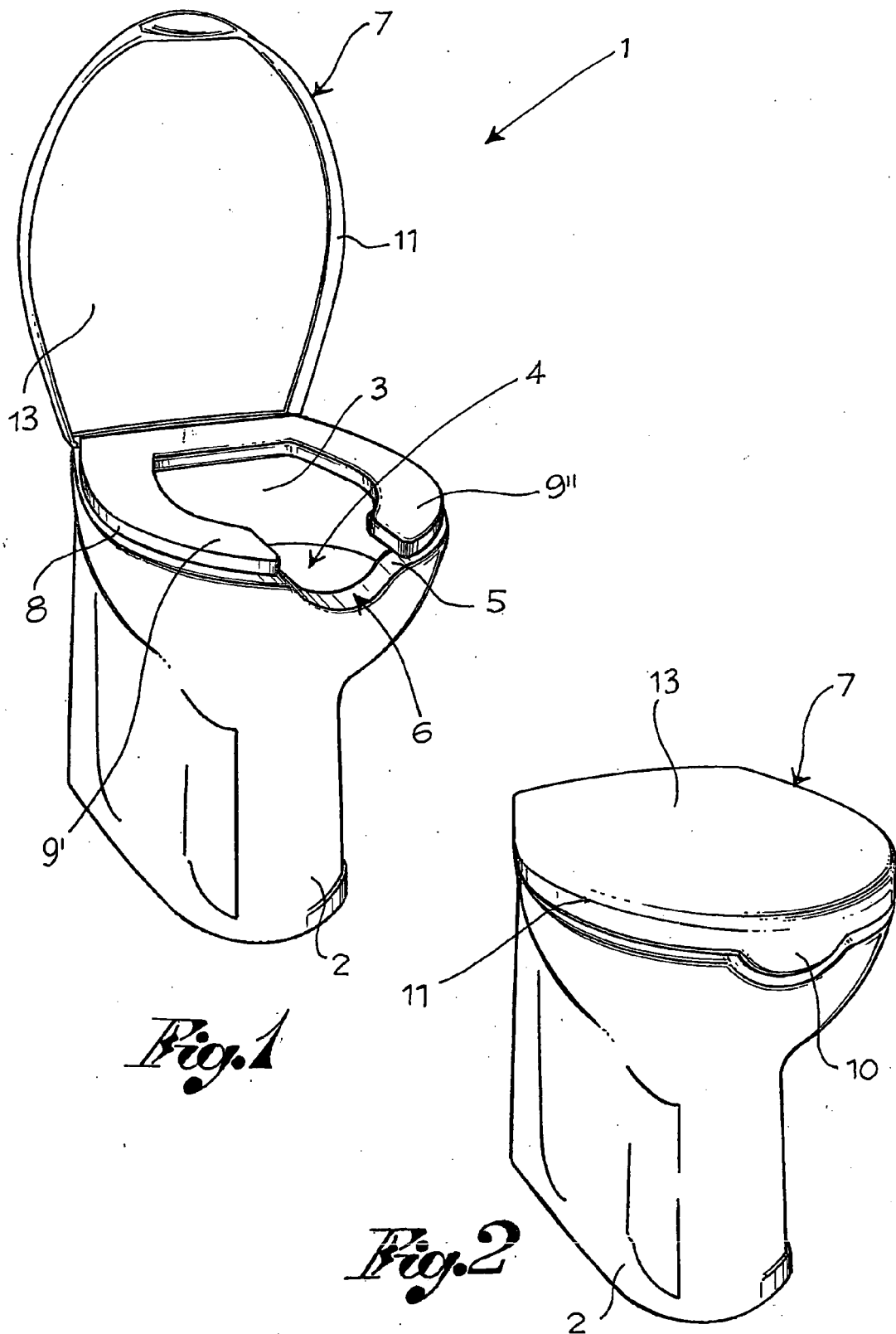
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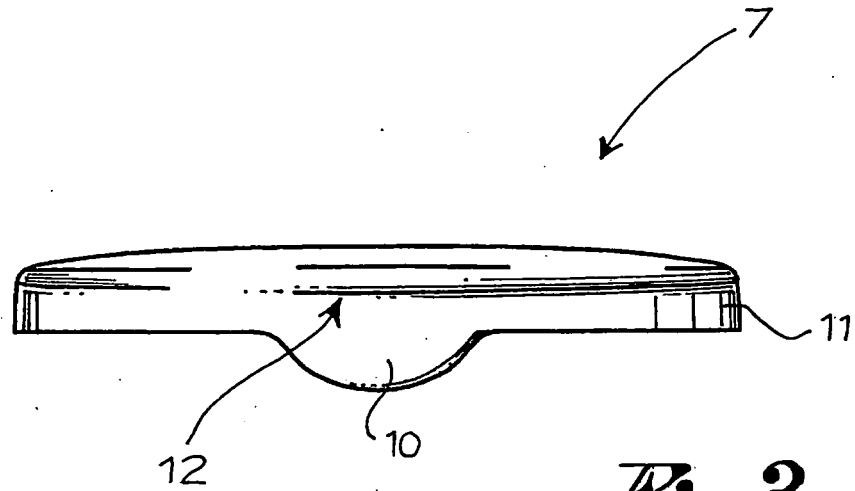


Fig. 3

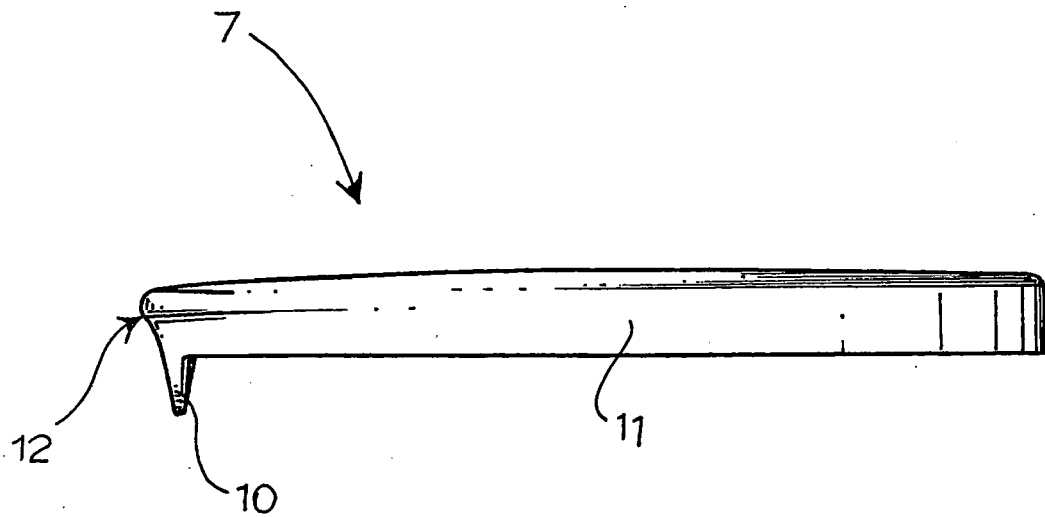


Fig. 4