

(19) **DANMARK**

(10) **DK/EP 2568089 T3**



(12)

Oversættelse af europæisk patentskrift

Patent- og
Varemærkestyrelsen

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- (51) Int.Cl.: **E 03 D 9/08 (2006.01)** **E 03 D 11/14 (2006.01)**
- (45) Oversættelsen bekendtgjort den: **2020-02-10**
- (80) Dato for Den Europæiske Patentmyndigheds bekendtgørelse om meddelelse af patentet: **2019-10-30**
- (86) Europæisk ansøgning nr.: **11007404.4**
- (86) Europæisk indleveringsdag: **2011-09-12**
- (87) Den europæiske ansøgnings publiceringsdag: **2013-03-13**
- (84) Designerede stater: **AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR**
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- (54) Benævnelse: **ANVENDELSE AF EN TOILETTILSLUTNINGSANORDNING OG ET BRUSETOILET**
- (56) Fremdragne publikationer:
EP-A1- 0 558 127
EP-A2- 1 803 859
WO-A2-2011/083396
DE-A1- 10 340 295
DE-A1- 19 624 522
DE-A1- 19 953 682
DE-A1-102009 030 490
GB-A- 2 466 763
US-A- 6 000 070

DESCRIPTION

The invention relates to the mounting of a shower toilet.

5 Water closets (WCs) with a bidet function have been known and have been in use for a long time. Here a WC is additionally equipped with at least one shower for cleaning the lower body of a user, this shower often being called the bottom shower in short. For example, a motor-driven shower arm of the bottom shower can be moved forward into the toilet bowl for operation and direct a jet of shower water upwards and move back after having performed its function. In many cases these shower devices are equipped with further devices, for example water heaters such as boilers or continuous-flow water heaters, blow-dryer devices, shower arm cleaning devices etc. An additional shower water connection, for example as a cold water connection of a water heater in the shower toilet, and an electrical connection, for example for supplying a water heater, a drive motor or other devices, are generally provided for the shower device. Basically, technical parts of the shower device can also be disposed “behind” the actual body of the toilet in a mounting wall; for example, a water heater could be provided here so that the aforementioned additional shower water connection can also serve water that is already heated up. Within the framework of this invention it is basically also conceivable to provide just one further line connection for the shower device, for example this type of water connection.

Generally, toilets are attached to a wall lying behind the latter, in particular if, as preferred here, they do not have a pedestal and are suspended. For this purpose a toilet connection device as or in a mounting frame for the toilet is generally provided in the wall or in a covered projection from the wall. These mounting frames generally consist of two vertical struts of a support frame arranged to the right and to the left on the outside and structures held in between running transversely – for example horizontal struts or mounting plates. Generally, load-bearing connection devices on which the body of the toilet can be suspended, connecting pieces for the flushing water and the waste water from the toilet bowl and connection devices for the aforementioned specific lines of the shower device are formed on these mounting frames.

DE 10 2009 030 490 A1 also relates to the mounting of a shower toilet and proposes to move the connections into a space behind the mounting wall or behind a mounting frame provider

therein, wherein obliquely arranged supply tubes are used for a telescopic transfer of a shower arm and the blow dryer arm from this space into the toilet bowl.

5 DE 103 40 295 A1 relates to a template for the sanitary installation of toilets with standardized connection positions.

WO 2011/083396 A2 relates to a universal mounting frame for mounting toilets or bidets suspended from the wall.

10 EP 0 558 127 A1 also discloses a mounting frame implemented in one variant for a wall-suspended toilet and in another variant for a wall-hung bidet.

EP 1 803 859 A2 discloses the production of a wall module for fixing wall-suspended toilets, bidets, urinals or wash stand.

15 DE 199 53 682 A1 relates to a universal mounting stand for mounting a toilet, a bidet or a wash basin.

GB 2 466 763 A concerns a combined toilet/bidet unit.

20 DE 196 24 522 A1 relates to the upgrade of a conventional toilet bowl by a conventional bidet fitting.

Further, US 6,000,070 relates to a shower toilet.

25 Further, reference is made to FR 2952081.

By third party observations, a document has been filed having the title "Planungsinformation closomat info" (planning information closomat info) and the date June 1994, the authenticity
30 and qualification as prepublished prior art has been confirmed by the examining division.

The problem of the invention is to provide a practical and advantageous solution for the mounting of a shower toilet, in particular in view of the shower water line.

First, the invention hereto relates to a new use of a toilet connection system for the wall-side connection of a shower toilet, wherein the shower toilet is connected to the toilet connection system and the toilet connection system comprises a flushing water inlet pipe connection device on the connection system side for a bowl of the shower toilet, a waste water pipe connection device on the connection system side for the bowl of the shower toilet and a shower water line connection device on the connection system side in the form of a separable shower water line interface or a positioning device to determine the shower water line position of a shower water line to a shower device, which leads to a separable shower water line interface located in front of the plane of the wall or of the toilet connection system, wherein the flushing water inlet pipe and the waste water pipe for the shower toilet are connected, wherein a centre of the waste water line at the waste water line connection device and a centre of the flushing water inlet pipe at the flushing water inlet pipe connection device define a vertical reference line and the circular centre of a cross-section of the shower water line at the shower water line connection device or at the positioning device, respectively, is at a horizontal distance from the reference line of more than 15 mm and less than 75 mm, characterised in that the separable shower water line interface is connected between two portions of the shower water line to the shower device of the shower toilet, in the plane of the wall, or, on the bowl side, in front of the wall plane or the plane of the toilet connection system.

Second, the invention relates to a new use of a shower toilet for wall mounting on a wall-side toilet connection system, wherein the shower toilet is connected to the toilet connection system and comprises a toilet-side flushing water inlet pipe connection device for mounting on the wall, a toilet-side waste water pipe connection device for mounting on the wall and a toilet-side shower water line connection device in the form of a separable shower water line interface or a positioning device for determining the shower water line position of a shower water line to a shower device that leads to a separable shower water line interface located in front of the wall plane or of the toilet connection system, wherein the flushing water inlet pipe and the waste water line for the shower toilet are connected, wherein a centre of the waste water pipe at the waste water pipe connection device and a centre of the flushing water inlet pipe at the flushing water inlet pipe connection device define a vertical reference line and the circular centre of a cross-section of the shower water line at the shower water line connection device or at the positioning device, respectively, is at a horizontal distance from the reference line of more than 15 mm and less than 75 mm, characterised in that the separable shower water line interface is connected between two portions of the shower water line to the shower device of the shower

toilet, in the plane of the wall, or, on the bowl side, in front of the wall plane or the plane of the toilet connection system.

Preferred implementations are subject of the dependent claims.

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According to the invention, at least one further connection device or positioning device for a specific line of the shower device lies within the central 150 mm, but outside of the central 30 mm, in relation to the width. In other words, the distance from the middle is smaller than 75 mm and larger than 15 mm. Here the middle should be defined by the center of the wall-side and toilet-side flushing water inlet pipe at the connection device for the flushing water inlet pipe and the center of the wall-side and toilet-side waste water pipe at the connection device for the waste water pipe. These two pipes are basically run centrally and one over the other and so form a reference point independent of details of the fitting of the shower toilet.

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15 The shower water line connection device or positioning device relates to the shower water line, namely the water line for the shower device. A central arrangement in the above sense and in particular an arrangement according to the invention is particularly preferred in case of two shower lines, in particular an additional electric line.

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It is basically the case that connection positions lying further to the inside are increasingly preferred, in any case up to a specific upper limit. Accordingly, instead of the aforementioned 150 mm, the following central widths are increasingly preferred as upper limits (respectively in mm): 125, 120, 115, 110. More preferred lower limits are in the following sequence: 40 mm, 50 mm, 60 mm, 70 mm, 80 mm.

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These details that are symmetrical to both sides do not mean, of course, that there have to be two connection positions or two connection positions have to lie symmetrically. Therefore, only a range to be understood as being in accordance with the invention is quantified. For example, the narrowest limit of 110 mm means that the middle of the shower line connection device has to lie a maximum of 55 mm horizontally away from the vertical centre line.

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In this regard it is also significant that in the vast majority of today's toilets there are more or less standardized connection positions for the flushing water inlet pipe connection device, the

waste water pipe connection device and mechanical, and for suspended toilets, load-bearing fastening devices, in particular threaded rods. Here the aforementioned line connections are provided centrally, the flushing water inlet pipe running of course over the waste water pipe, and mechanical connection devices are predetermined in a height range just below the flushing water inlet pipe connection device 90 mm and 115 away from the middle to the side, in particular threaded rods on the wall side and corresponding receiving holes on the toilet side.

Thus, connection positions for the shower line connection device according to the invention are therefore basically “more central” than in the prior art, but particularly preferably are even more central than the outer and very particularly preferably even more central than the inner normal position of the mechanical fastening.

This more central arrangement facilitates accessibility to the connection devices for a fitter or a maintenance technician, in particular from below, and enables or uses a corresponding configuration of the rear side of the toilet. Generally toilets have a region kept clear of the rear side around central flushing water inlet pipes and waste water pipes of the toilet bowl; in other words, the contact surfaces of the toilet body lie against the mounting wall outside of this clear region. A corresponding arrangement of the aforementioned connection devices thus allows a configuration of the toilet in which one can reach the connection devices by grasping from below without having to dismantle the body of the toilet. This applies to reaching by hand or at any rate with a tool, depending on the application. As an illustration, reference is made to the exemplary embodiment. Here, the region kept clear is approximately in the shape of an inverted V and the connection devices can be accessed from below past the waste water pipe. (According to this example a toilet can therefore be connected itself or with an adapted rear-side configuration to a device according to the invention). Here these connection devices lie, furthermore, just outside of the region of the flushing water inlet pipe for the toilet bowl relative to the horizontal extension and approximately at the level of its lower edge relative to the vertical extension and, moreover, at the level of the connection devices supporting the load of the body of the toilet. However, these are only preferred positions and are in no way compulsory.

Furthermore, fitting and connection or maintenance work in the region between the flushing water inlet pipe and the waste water pipe is regularly made difficult by these lines and their connection devices. Provision is therefore made such that the middle of the at least one shower line connection device lies outside of the actual middle, specifically the middle 30 mm.

One means by the term “connection device” in particular a separable interface, i.e. for example an electrical plug contact or a water-tight coupling between two shower line sections. However, this term also relates to a wall-side or also to a toilet-side device which only determines the wall-side position of a corresponding shower line or that on the toilet. For example, in a horizontal mounting plate extending between the vertical frame struts of a mounting frame a hole could be made through which an over-long shower line is guided and can be continued to the front, i.e. in the direction of the toilet bowl. In this case the actually separable interfaces could also lie somewhat in front of the plane of the wall or of the mounting frame; however, they preferably lie approximately in this plane. The same applies to an over-long shower pipe piece on the rear side of the toilet and to an arrangement of an interface behind the front side of the wall.

In general, with regard to the vertical arrangement a shower line connection position on the one hand below the upper edge and preferably the centre line of the flushing water inlet pipe connection for the toilet bowl and on the other hand over the lower edge and preferably over the centre line of a waste water pipe connection for the toilet bowl is preferred for reasons relating to accessibility and simplicity of construction. Particularly preferred with regard to the vertical positioning are arrangements in the region around the load-bearing connection devices, in particular between 15 % above and 40 % below, the percentage values relating to the vertical height of the load-bearing connection devices with respect to the floor. Also preferred are upper limits of plus 10 % and plus 5 % and, independently of this, lower limits of minus 30 %, minus 20 % and minus 10 %. With adjustable mounting frames a floor position in the centre of the adjustment range is meant. The statements relate once again to at least one shower line.

In the prior art, however, the connection devices for the specific shower lines of shower toilets were positioned a long way to the outside as regards the horizontal direction. They either lay in a mounting plate connecting two vertical frame struts, directly within the frame struts or even outside of the frame struts and so, in accordance with Claim 1, at approximately 390 mm or over (195 mm away from the middle). The reason for this presumably is that in many shower toilets the shower lines are not connected out of sight behind the body of the toilet, but visibly, next to it. This applies in particular to shower toilets having a shower attachment, i.e. a technical housing placed on a normal toilet body between the toilet seat and the mounting wall and which contains the technology required for the shower device outside of and above the rest of

the toilet body. Such retrofittable solutions are then connected by lines run visibly to the side of the toilet body. In this sense one will have sought to keep the corresponding toilet connection devices or mounting frames for attachment solutions and integrated shower toilets, in which at least part of the shower device is integrated into the body of the toilet, universal.

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In the central arrangement according to the invention obscuration from sight, in particular by the body of the toilet, is preferred and easily possible.

10 In addition, the invention relates to toilet connection devices which are designed for a position according to the invention of a shower line connection device and moreover for a position lying further to the outside. One can therefore take different toilets which are possibly only partly suitable for a position according to the invention into account. For example, a line run within a mounting frame or a pipe duct run within the mounting frame could be made sufficiently flexible for this purpose so that, for example, they can be dismantled between a position within the
15 mounting frame lying further to the inside and a position lying further to the outside. In one advantageous solution this pipe duct is branched and so offers a choice of two different pipe duct pieces which respectively fit in their own attachment position. Of course more than two alternatives are also conceivable. For example, this type of pipe duct can be run downwards from a valve arranged above a cistern integrated into a mounting frame for a shower water pipe
20 approximately along one of the frame struts and be configured somewhat above the connection position then branching from the latter in an approximate V shape.

In the following the invention is described in more detail by means of an exemplary embodiment:

- 25 Figure 1 shows a toilet body of a shower toilet according to the prior art, illustrated partially in section and partially perspectively;
- Figure 2 shows a rear view of a corresponding toilet body, also in accordance with the invention;
- Figure 3 shows a front view of a toilet connection device according to the invention for
30 the wall-side connection of the shower toilet from Figures 1 and 2.

In Figure 1 one can see a perspectively illustrated toilet body, as viewed from behind at an angle and slightly elevated. Furthermore, Figure 1 is sectioned, so only shows one half of the body of the toilet. One can clearly see a classic toilet bowl 1, an elbow 2 of a discharge siphon

and, adjoining the latter, a pipe socket 3 pointing to the right as a waste water pipe connection device of the toilet to the wall connection. Furthermore, over the pipe socket 3 one can see another pipe socket 4, namely a flushing water inlet pipe connection device. This pipe socket 4 leads into a flushing channel 5 running around the upper edge of the toilet bowl 1. Above the flushing channel the body of the toilet. terminates substantially horizontally and flat to the top.

A shower attachment, known in its own right, can be built onto this flat upper side of the body of the toilet, from which shower attachment a shower arm, for example, can be moved into the upper opening of the toilet bowl 1, at an angle downwards and to the front. Conventionally, these shower attachments themselves are provided with side connection devices or connection lines running out to the side for their water supply and shower water connection pipes. In this context, to the side means the region approximately above the upper rear edge of the body of the toilet in Figure 1 in its straight region, and to the right of the bowl opening.

Moreover, Figure 1 shows on the right an approximately triangular profile rear wall region 6 to be supported against a mounting wall. This profile rear wall region 6 is closed between the approximately vertical (V-shaped) frame struts shown and the horizontal struts. It can easily be seen that it contains a cylindrical hole 7 as a mounting hole for a bolt for mechanically fastening the body of the toilet, i.e. as a load-bearing connection device. This mechanical mounting is conventional and well-established.

Figure 2 largely shows the same toilet body, the same reference numbers accordingly being used. Here one is viewing from precisely behind and horizontally onto the rear side, the second half of the body of the toilet also being shown.

One can clearly see that the profile rear wall region 6 shown in Figure 1 together with its mirror-symmetrical counter-piece leaves a central area clear which is filled at the top by the pipe socket 4 of the flushing water inlet pipe and below, with space to the right and to the left of it however, it contains the pipe socket 3 of the waste water pipe. This clear region is approximately shaped like an inverted "V" with a rounding or like an inverted "U" with side pieces diverging somewhat. One can clearly see that on the outer edge of this clear region two pipe line pieces 8 and 9, one respectively on each side, are drawn in. These are a shower water inlet pipe 8 and an electrical supply line 9 or are empty conduits for this purpose. With regard to the vertical height, these lie on the same level as the load-bearing connection devices, i.e. bolt

holes 7, already described by means of Figure 1. With regard to the horizontal extension they lie offset to the outside by 50 mm from the middle, i.e. 100 mm apart from one another. This relates to the respective circle centre of the section through the line, as indicated by the drawing. In contrast, the centre points of the bolt mounting holes 7 lie 90 mm outside of the centre, i.e. 180 mm apart from one another.

One can easily see that the corresponding lines 8 or 9 can respectively run on from here, for example upwards at an angle and outwards, and within inner cavities of the ceramic toilet body run up behind the rear wall of the profile 6 and, for example, through an opening, not shown in Figure 1, in the upper side of the toilet body, into a shower attachment. The lines can maintain the position shown in Figure 2 as a result of their own dimensional stability and/or as a result of fixing, for example onto the ceramic toilet body. For example, they can be stuck on by an adhesive body. Flexible lines with an undefined position are basically also conceivable which can be brought into the positions shown when fitted and in this respect are designed for this purpose.

A fitter or a maintenance technician can reach the positions according to the invention of the shower lines 8 and 9 with his hand or with a tool from below without any particular difficulty, even when the shower toilet is fitted. For this purpose he can reach past the waste water line pipe socket 3 and does not have to reach “around the corner” into the somewhat less accessible region between the latter and the pipe socket 4 of the flushing water inlet pipe. One can see, furthermore, that the positions of the lines 8 and 9, depending on the detailed configuration of the rear side contact surface of the toilet body, are or can be variable to different sides. In particular, the region within the profile rear walls 6 could also be partially accessible and so positions horizontally outside of the mounting holes 7 could also be considered for the load-bearing bolts.

For example, parts of the profiles of the profile rear walls 6 or of the fillings in the latter could be left out and so further surfaces for load-bearing connections or also for shower line positions according to the invention could be opened up. It is basically preferred within the framework of this invention to arrange the shower line positions according to the invention according to the geometric features described (relative to their vertical and horizontal position) within profile frames of rear-side profile rear walls of a shower toilet, and particularly preferably within a central region left clear between such profile frames, as shown by this example.

The pipe line pieces 8 and 9 shown are essentially symbolic. They preferably end in an interface for example of a plug-in connection or of other connection devices which is disposed in the region shown or somewhat behind or in front of this region. As already explained, the “interfaces” could however also lie within the body of the toilet or in the installation wall and the positions of the lines illustrated or comparable ones could nevertheless be chosen.

Figure 3 shows a corresponding toilet connection device. The latter has, in a form known in its own right, a mounting frame with two vertical steel profile struts 10 on adjustable feet and a lower steel profile cross bar 11 and a further upper steel profile cross bar (not drawn in accurately). The cross bar 11 carries an angled pipe piece 12, namely the wall-side connection device for the waster water pipe of the toilet. Over this is a cross plate 13 as a mounting plate with optional inner and outer mounting holes 14 and 15 for the aforementioned fastening bolts, i.e. matching the receiving holes 7 in Figures 1 and 2. The inner mounting holes 15 lie 180 mm apart from one another, as required by Figure 1 and Figure 2, and the outer mounting holes, which could also be used, but require adaptation of the toilet body, are 230 mm apart from one another. Furthermore, the mounting plate 13 includes a recess in the centre with a semi-circular shape at the top and a rectangular shape at the bottom through which a wall-side connection device 16 for the flushing water inlet pipe projects, i.e. complementary to the pipe socket 4 in Figures 1 and 2. Located above the mounting plate 13 in these devices is a cistern 17, i.e. a water tank for the flushing water inlet pipe, and over the latter a triggering mechanism 18 for the flushing process.

In so far as they have been described up till now, the elements in Figure 3 are conventional and together with a toilet body according to Figure 1 would form a conventional toilet arrangement. Corresponding to the lines 8 and 9 added in Figure 2, in Figure 3 there is an opening 19 in the mounting plate 13 for a water supply connection, i.e. matching the line 9 in Figure 2, and a further opening 20 with a shower water connection, i.e. matching the line 8 in Figure 2. A moulded plastic body passing from the opening 20 is drawn in – initially by means of dashes (because it is positioned behind the mounting plate 13) as a line duct and identified by number 21. This moulded plastic body leads ultimately into the region behind the triggering plate of the triggering mechanism 18 drawn in at the top of Figure 3. Located here is a fresh water valve that supplies the cistern 17 and from which the shower water pipe branches off. This pipe runs within this empty duct 21 to the opening 20.

Here the empty duct branches behind the upper edge of the mounting plate 13 in the way shown and leads with a further possible line section to a further opening 22 in the mounting plate 13 which, apart from its position lying further to the outside, corresponds to the opening 20.

This position of the opening 22 is in itself conventional; shower toilets to be found on the market are connected with these positions. In the present case the toilet connection device in Figure 3 should be configured to be flexible and enable the water pipe to thread through for both connection positions 20 and 22. Therefore, shower toilets with connection positions according to the invention as in Figure 2 or also conventional shower toilets can be connected. The latter can be those with concealed connection, i.e. with obscuration from sight in relation to a line of vision from the front through the shower attachment or the rest of the toilet body below, or also those with which the connection is visible. Therefore, the connection device according to Figure 3 together with a shower toilet according to Figure 2 allows use according to the invention and the creation of a toilet arrangement according to the invention, or a different one however.

One can easily see that the mounting positions 19 and 20 within the mounting plate 13 could also be somewhat higher or further to the outside. They could also be located beneath the mounting plate 13, for example mounted on its lower edge or also independently of the latter. The mounting plate 13 could also be extended downwards.

The interfaces, i.e. the connection devices themselves, with which the lines pass from the body of the toilet into the installation wall in Figure 3, are conventional in nature in their own right and are not described in any more detail.

PATENTKRAV

1. Anvendelse af en toilettilslutningsanordning til tilslutning af et brusetolet på vægsiden, hvor brusetolet tilsluttes til toilettilslutningsanordningen og toilettilslutningsanordningen omfatter en tilslutningsenhed for skyllevandstilledning (16) på tilslutningsanordningens side til
5 brusetolettets toiletkumme (1),

 en tilslutningsenhed for spildevandsafledning (12) på tilslutningsanordningens side til brusetolettets toiletkumme og

 en tilslutningsenhed for brusevandledning (19, 20) på tilslutningsanordningens side i form af en brusevandledningsgrænseflade, som kan adskilles, eller

10 en positioneringsenhed til fastlæggelse af en brusevandlednings (8, 9) position i forhold til en bruseenhed, der fører til en brusevandledningsgrænseflade, som kan adskilles, og som er placeret foran væggen eller toilettilslutningsanordningens niveau,

 hvor skyllevandstilledningen og spildevandsafledningen til brusetolet tilsluttes,

 hvor et midtpunkt af spildevandsafledningen ved tilslutningsenheden for
15 spildevandsafledningen (12) og midtpunktet for skyllevandstilledningen ved tilslutningsenheden for skyllevandstilledningen (16) definerer en vertikal referencelinje og cirkelmidten i brusevandledningens tværsnit ved tilslutningsenheden for brusevandledningen (19, 20) eller hhv. ved positioneringsenheden er ved en horisontal afstand fra referencelinjen på mere end 15 mm og mindre end 75 mm,

20 **kendetegnet ved, at** brusevandledningsgrænsefladen, som kan adskilles, er tilsluttet imellem to dele af brusevandledningen (8, 9) til brusetolettets bruseenhed i niveau med væggen, eller på kummens side foran væggen eller toilettilslutningsanordningens niveau.

2. Anvendelse ifølge krav 1, hvor en elektrisk tilslutningsenhed for bruseledning (19, 20) på tilslutningsanordningens side tilvejebringes i form af en elektrisk
25 bruseledningsgrænseflade, som kan adskilles, eller en positioneringsenhed for at bestemme en elektrisk forsyningsledning (8, 9) bruseledningsposition i forhold til bruseenheden, som fører til en elektrisk bruseledningsgrænseflade, som kan adskilles, og som er placeret foran væggen eller toilettilslutningsanordningens niveau, hvor den elektriske bruseledningsgrænseflade, som kan adskilles, er tilsluttet imellem to dele af den elektriske forsyningsledning (8, 9) til
30 brusetolettets bruseenhed i væggen niveau eller på kummens side foran væggen eller toilettilslutningsanordningens niveau.

3. Anvendelse ifølge krav 1 eller 2, hvor cirkelmidten i bruseledningens tværsnit på den elektriske bruseledningsgrænseflade og/eller brusevandledningen på tilslutningsenheden for bruseledningen (19, 20) eller hhv. positioneringsenheden ligger under overkanten, helst under

den horisontale midterlinje, for skyllevandstilledningen på tilslutningsenheden for skyllevandstilledningen (16) for toiletkummen (1).

4. Anvendelse ifølge krav 1, 2 eller 3, hvor cirkelmidten i bruseledningens tværsnit på den elektriske bruseledningsgrænseflade og/eller brusevandledning på tilslutningsenheden for bruseledningen (19, 20) eller hhv. positioneringsenheden ligger over underkanten, helst over den horisontale midterlinje, for spildevandsafledningen på tilslutningsenheden for spildevandsafledning (12) for toiletkummen (1).

5. Anvendelse ifølge et af foregående krav omfattende en ledningsføringsrørkanal (21) for en elektrisk forsyningsledning og/eller brusevandledning, som strækker sig til tilslutningsenheden for bruseledningen (20) eller hhv. positioneringsenheden, som tillader, at positionen for cirkelmidten i tværsnittet for den elektriske forsyningsledning og/eller brusevandledning bestemmes inden for det horisontale område specificeret i krav 1, og derudover tillader muligheden for en position (22), som ligger længere uden for dette område.

6. Anvendelse ifølge krav 5, hvor ledningsførings-rørkanalen (21) har en forgrening på stykket til tilslutningsenheden for bruseledningen (20) eller hhv. positioneringsenheden og imellem denne forgrening og de to positioner (20, 22) har et eget rørkanalstykke.

7. Anvendelse af et brusetolet til vægmontering på en toilettilslutningsanordning på vægsiden, hvor brusetolet tilsluttes til toilettilslutningsanordningen og omfatter en tilslutningsenhed for skyllevandstilledning (4) på toiletsiden til vægmontering, en tilslutningsenhed til spildevandsafledning (3) på toiletsiden til vægmontering og

en tilslutningsenhed med brusevandledning (8, 9) på toiletsiden i form af en brusevandledningsgrænseflade, som kan adskilles, eller

en positioneringsenhed til fastlæggelse af en brusevandlednings (8, 9) position i forhold til en bruseenhed, der fører til en brusevandledningsgrænseflade, som kan adskilles, og som er placeret foran væggen eller toilettilslutningsanordningens niveau,

hvor skyllevandstilledningen og spildevandsafledningen til brusetolet tilsluttes,

hvor et midtpunkt af spildevandsafledningen ved tilslutningsenheden for spildevandsafledningen (12) og midtpunktet for skyllevandstilledningen ved tilslutningsenheden for skyllevandstilledningen (16) definerer en vertikal referencelinje og cirkelmidten i brusevandledningens tværsnit ved tilslutningsenheden for brusevandledningen (19, 20) eller hhv. ved positioneringsenheden er ved en horisontal afstand fra referencelinjen på mere end 15 mm og mindre end 75 mm,

kendetegnet ved, at brusevandledningsgrænsefladen, som kan adskilles, er tilsluttet imellem to dele af brusevandledningen (8, 9) til brusetoletts bruseenhed i niveau med

væggen, eller på kummens side foran væggen eller toilettilslutningsanordningens niveau.

8. Anvendelse af et brusetolet ifølge krav 7 i forbindelse med anvendelsen af en toilettilslutningsanordning ifølge et af kravene 1 til 6.

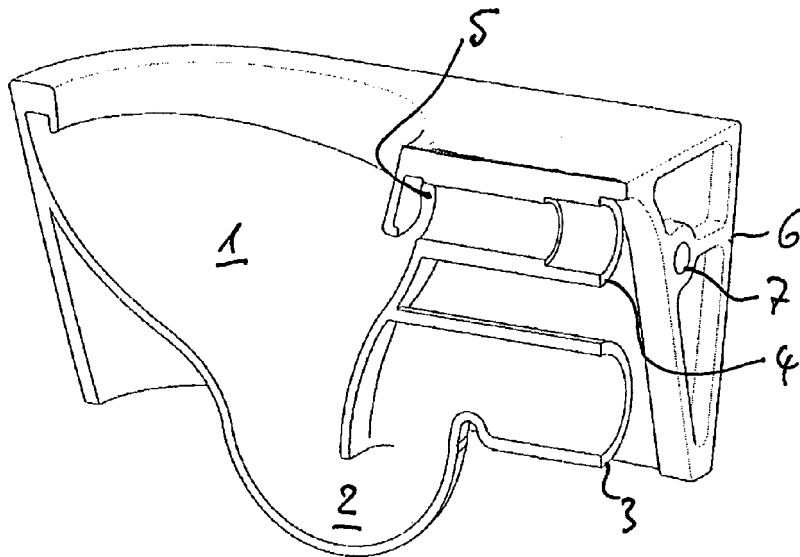


Fig. 1

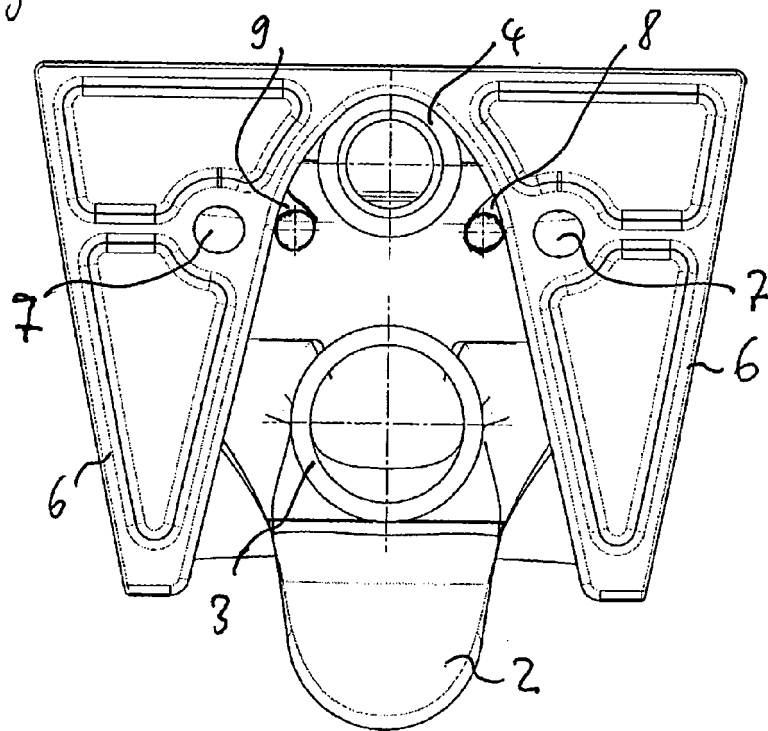


Fig. 2

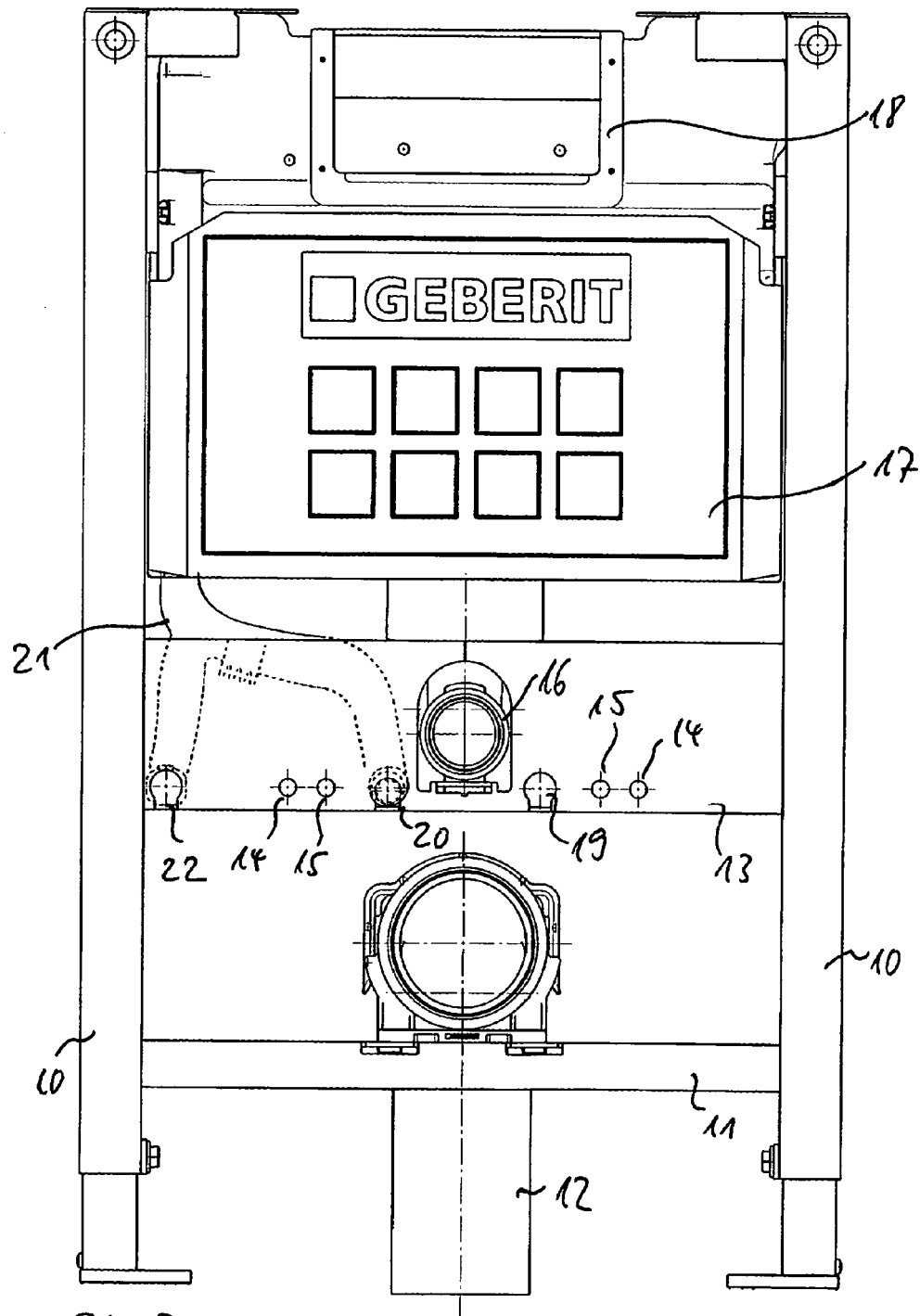


Fig. 3