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(54) **Lavatory seat for public lavatories, offices, etc., adapted for distributing and placing lavatory seat sheets made of paper or other similar material.**

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**EP 0 303 323 B1**

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## Description

This invention refers to a lavatory seat with back board for public lavatories, offices, etc., adapted for distributing and placing lavatory seat sheets made of paper or similar material. Lavatory seat of this art is similar to that shown in DE 2109656, there is known an inter-changeable lavatory seat adapted for distributing and placing lavatory seat sheets made of hollow punched paper sheets by raising the lavatory back board. The seat sheet is made of rather thick paper or similar material and the proper placing is assured by provided reinforcements on the seat sheet, which block themselves on the water closet cup. This invention intends to resolve, in a practical and functional manner, the problem which arises in public and/or communities water closets with ensuring hygienically safe seats of the water closet bowl. This solution has been studied in many practical trials and considering its rather simple, it is believed that it can have a wide range of application. Essentially, the invention foresees that the usual lavatory seat, only slightly modified, is linked together and attached to the back board by a hinge. The back board is rather thick, it leans against the wall and it contains a pile of hollow punched paper (or other appropriate material) sheets suitable to act as seat covers. The lavatory seat sheets have rubber in specified areas which have the function of making it possible to automatically detach a single sheet and assure a certain antislip effect in coming in contact with the lavatory seat.

The lavatory seat, according to the invention, is represented as a non-exhaustive example in the following design, the figures of which demonstrate:

Fig.1 - A perspective view, in the standard position, of the lavatory seat properly installed and one embodiment of the back board hinged to the lavatory seat containing a pile of hollow punched lavatory seat sheets. The lavatory back board is leaned against the nearby room wall - not shown - and shows the lavatory seat sheets ready for individual withdrawal from the pile.

Fig.2 - A view halfway through the operation of detaching a lavatory seat sheet, during which the lavatory seat is raised operating on the suitable anteriorly applied handle.

Fig.3 - A view at the end of the phase represented in fig.2, where a small plaque, with an adhesive surface, that is part of said handle, touches the corresponding rubber area found on the lavatory seat sheets.

Fig.4 - A view during the phase of lowering the lavatory seat with the lavatory seat sheet adhering to it in the correct position.

As clearly shown in the said figures, the invention is based on a normal lavatory seat (1) for lavatories in which anteriorly a handle (2) for raising the lavatory seat is applied. A back board (3) is hinged posteriorly to the lavatory seat, it has a certain deepness in order to contain a certain number of hollow punched lavatory seat sheets (4) of paper or other material with similar characteristics. For reasons described further on, the handle (2) for raising the lavatory seat has on its upper surface an adhesive area shaped as a rectangular plaque housed in a proper housing cavity foreseen on the lavatory seat. The handle is attached to the lavatory seat with screws (5) which also have the function of fixing two pads (6) of auto-adhesive or rubber strips with long lasting properties. The lavatory back board (3), as shown in the figures, possesses an adequate form to the lavatory seat (1) and it has peripheriacally a rather high border which acts as a place holder for the pile of lavatory seat sheets that it contains. This is further assured by an appropriately shaped protrusion (7) which originates from the central zone of the back board in order to act on the internal hole in the hollow punched lavatory seat sheets (4).

The whole is finished by a couple of supports or pins (8) applied to the internal border of the back board (3) in order to be easily replaced. These supports (8) have the function of holding the remaining lavatory seat sheets (4) when an individual seat is withdrawn. The ideal protrusion of the supports with respect to the functioning may depend on the inclination that the back board (3) assumes when leaning against the wall. Therefore the supports can be substituted with others of varying lengths.

According to another characterizing embodiment of the invention, the hollow punched lavatory seat sheets (4) are singularly treated with rubber latex applied on areas as followed: on the anterior zone (9) with a rectangular surface which sticks (fig.3) to the adhesive pads (6) of the plaque of the lifting handle (2) and on the two central zones (10 and 11) in the curved shape of the oval hollow punched sheets. This assures the robustness of the structure of the paper material of the sheet and also an antislip function when in contact with the lavatory seat (1) which assures a correct positioning of the sheet in the withdrawing and utilization phases. It is important to underline furthermore that the latex in such areas comes from a rather elastic and resistant film which keeps the skin of the buttocks from coming in contact with the lavatory seat in case the lavatory seat sheet rips.

## Claims

1. Lavatory seat for public lavatories, offices, etc., adapted for distributing and placing lavatory seat cover-sheets (4) made of paper or other similar material, said seat being linked by a hinge to the back board (3) of appropriate shape containing a supply of lavatory seat cover-sheets (4) of hollow punched paper sheets, the front of the lavatory seat having a protruding handle (2) for raising it, characterised in that the handle (2) has a rectangular base with one or more holding pads (6) of adhesive material that, when raised to meet the seat cover-sheets (4), contacts the hollow punched lavatory seat cover-sheets (4) in a zone (9) which has been treated with rubber latex, cover-sheets which at each raising of the lavatory seat are withdrawn one by one.
2. Lavatory seat as claimed in claims 1, characterized by the fact that the relative hinged back board (3) has at its center a shaped protrusion (7) raised from it which acts on the internal hole of the hollow punched lavatory seat cover-sheets (4) to hold them in place.
3. Lavatory seat as claimed in claims 1 to 2, characterized by the fact that the hinged back board (3), has superiorly, on the internal part of its border, a couple of replaceable supports or pins (8) protruding from it which have the function of holding in place, up to a certain limit, the lavatory seat sheets (4), at the moment of withdrawal of an individual cover-sheet, by the holding pads foreseen in the front of the actual lavatory seat.
4. Lavatory seat as claimed in claims 1 to 3, characterized by the fact that the lavatory seat paper sheets (4) destined to be withdrawn by the lavatory seat when it is raised completely, have on each sheet a small zone (9) treated with rubber latex positioned in such a way as to come in contact with the holding pads foreseen on the plaque (6) that is found on the handle (2) which protrudes from the front of the lavatory seat (1).
5. Lavatory seat as claimed in claims 1 to 4, characterized by the fact that the lavatory seat paper sheets (4) have been treated with rubber latex in at least two additional areas (10, 11) close to the punched-out oval hole, in order to prevent the sheets from slipping on the seat (1) and also to reinforce of the fiber of which the sheets (4) are made.

## Revendications

1. Lunette de WC pour toilettes publiques, bureaux etc..., adaptées pour la distribution et la pose des couvres-sièges (4) en papier ou autre matière similaire, dit lunette du WC doit être fixé avec des charnières à un couvercle de forme adéquate contenant une réserve de feuilles couvre-siège (4) de papier fuselé, la partie antérieure de la lunette du WC ayant une poignée (2) en saillie de soulèvement, caractérisé en ce que la poignée (2) a une base rectangulaire avec un ou plusieurs petits tampons de fixation (6) fait des matériau adhésive qui, quand on les soulèvent pour atteindre les feuilles couvre-siège, celle-ci sont mises en contact avec les feuilles fuselées du couvre-siège de la lunette du WC (4) dans une zone (9), qui a été traitée avec des bandes de latex caoutchouc, les feuilles couvre-siège se placent automatiquement et individuellement sur la lunette du WC a chaque soulèvement de la lunette.
2. Lunette de WC selon la revendication 1, caractérisée en ce que le correspondant couvercle du WC à charnières (3) présente au centre une partie épaisse façonnée (7) agissant sur le trou central des feuilles fuselées du couvre-siège (4) de manière à les maintenir en place.
3. Lunette de WC selon les revendications 1 et 2, caractérisée en ce que le couvercle à charnières (3) présente sur la partie supérieur, à l'intérieur du son bord, un couple de supports remplaçables ou dents (8) en saillie de celui-ci ayant la fonction de maintenir, jusqu'à une certaine limite, les feuilles du couvre-siège (4) au moment du prélèvement individuel du couvre-siège, grâce aux tampons prévus en avant sur la lunette du WC même.
4. Lunette de WC selon les revendications 1 à 3, caractérisée en ce que les feuilles de papier du couvre-siège (4), destinées à être prélevées lorsque on soulève la lunette du WC complètement, ont sur chacune d'elles une petite zone (9) traitée avec du latex de caoutchouc, placé de telle manière qu'elle vienne en contact avec les tampons de fixation prévu sur la plaque (6) qui se trouve sur la poignée (2) qui dépasse du devant de la lunette du WC (1).
5. Lunette de WC selon les revendications 1 à 4, caractérisée en ce que les feuilles de papier du couvre-siège (4), ont été traitées avec des bandes de latex caoutchouc dans au moins deux zones supplémentaires (10, 11) proche

du trou fuselé ovale interne, ayant pour fonction de prévenir le glissement sur la lunette du WC (1) et aussi de renforcer la fibre constituant la feuille de papier.

schicht versehen sind und das unmittelbar in der Nähe der ovalen Öffnung, wodurch das Rutschen dieser Elemente auf dem Sitz vermieden wird und die Fasern, aus denen sie hergestellt sind verstärkt werden.

## Patentansprüche

1. Toilettensitz für öffentliche Toiletten, Büros usw., der so ausgestattet ist, daß das Anbringen von Abdeckeelementen (4) aus Papier oder einem anderen ähnlichen Material möglich ist; der Sitz ist mittels eines Drehgelenkes mit einem entsprechend geformten Toilettendeckel (3) verbunden, der auch die Abdeckeelemente (4) meist aus Wellpappe beinhaltet; an seiner Vorderseite beinhaltet der Sitz einen Hebel (2), der das Hochklappen ermöglicht und dadurch gekennzeichnet ist, daß er eine rechteckig geformte Zone mit einer oder mehreren Halteplatten (6) aus adhäsivem Material aufweist, wodurch beim Hochklappen des Sitzes ein Kontakt mit den Abdeckeelementen (4) zustande kommt, und zwar an einer mit Gummi oder Kautschuk behandelten Stelle (9); bei jedem Hochklappen des Toilettensitzes wird jeweils ein Abdeckeelement dem Vorratsstapel im Deckel entnommen. 10 15 20 25
2. Toilettensitz nach Anspruch 1, dadurch gekennzeichnet, daß der mit ihm verbundene Toilettendeckel (3) in der Mitte einen entsprechend geformten vorstehenden Teil (7) aufweist, so daß die Abdeckeelemente (4) erwartungsgemäß festgehalten werden. 30 35
3. Toilettensitz nach Ansprüchen 1 und 2, dadurch gekennzeichnet, daß der Toilettendeckel (3) an der Innen Seite seiner Umrandung mit einer Zahl von auswechselbaren Stützen oder Halterungen (8) versehen ist, die aus ihm herausragen und dazu dienen, daß sie die restlichen Abdeckeelemente festhalten, nachdem einer von diesen dem Vorratsstapel mit Hilfe der Halteplatten am Sitz entzogen worden ist. 40 45
4. Toilettensitz nach Ansprüchen 1 bis 3, dadurch gekennzeichnet, daß jedes der Abdeckeelemente (4), die vom hochgeklappten Sitz dem Vorratsstapel entnommen werden, an einer bestimmten Stelle (4) mit Gummi oder Kautschuk beschichtet ist, und zwar so daß ein Kontakt mit den Halteplatten (6) am Hebel (2) des Toilettensitzes (1) zustande kommen kann. 50
5. Toilettensitz nach Ansprüchen 1 bis 4, dadurch gekennzeichnet, daß die Abdeckeelemente (4) mindestens noch an zwei zusätzlichen Stellen (10, 11) mit einer Gummi- oder Kautschuk- 55

Fig.1

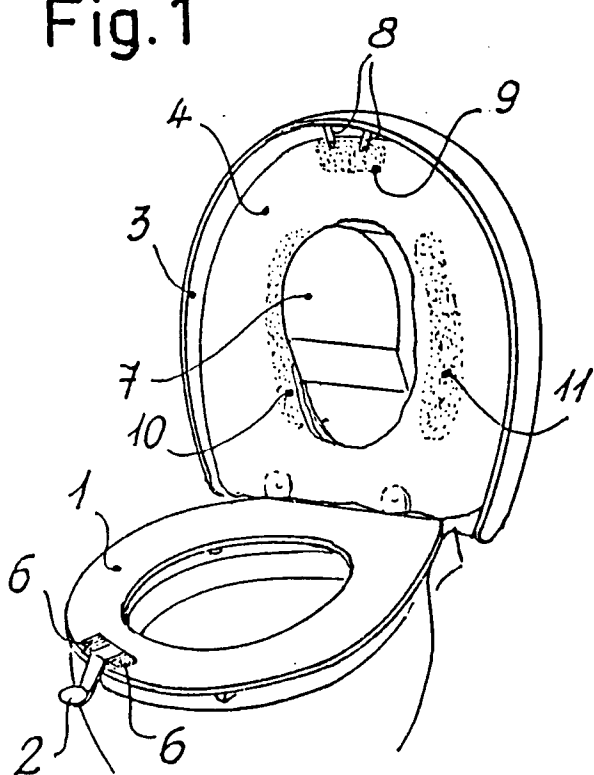


Fig.2

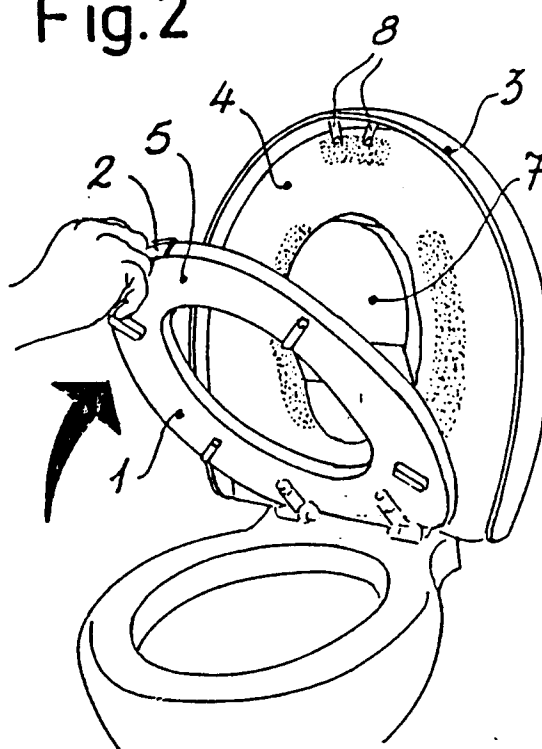


Fig.3

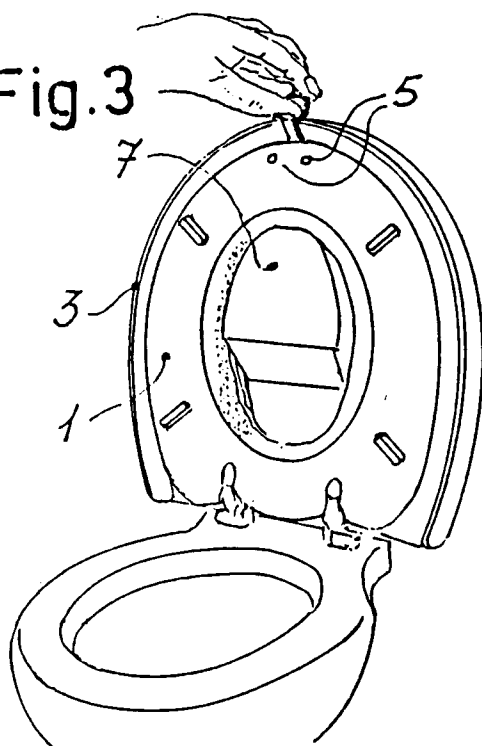


Fig.4

