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LIFTING HANDLE DEVICE FOR TOILET SEATS AND COVERS

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LIFTING HANDLE DEVICE FOR TOILET SEATS AND COVERS

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This invention relates to new and useful improvements in a lifting handle device for a water closet having a seat pivotally mounted at its rear and a cover for said seat also pivotally mounted at its rear.

Heretofore, it was necessary to manually touch the seat and cover for moving them upwards to their open position.

This invention proposes a simple attachment which may be mounted on the cover and which is provided with a movable handle operable for catching the seat or releasing the seat, as desired. With this arrangement it is no longer necessary to touch the seat or the cover during the opening and closing thereof.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawing, and to the appended claims in which the various novel features of the invention are more particularly set forth.

In the accompanying drawing forming a material part of this disclosure:

Fig. 1 is a plan view of a seat and cover provided with a cover lifting device constructed in accordance with this invention.

Fig. 2 is a fragmentary enlarged vertical sectional view taken on the line 2—2 of Fig. 1.

Fig. 3 is a fragmentary elevational view looking in the direction of the line 3—3 of Fig. 2.

Fig. 4 is a view similar to Fig. 2 but illustrating the parts in a different position.

The toilet seat and cover lifting handle device, in accordance with this invention, is applied to a water closet having a seat 15 pivotally mounted at its rear upon a pinle 16. This seat is provided with the usual cover 17 which is also pivotally mounted at its rear on the pinle 16. The lifting handle device includes a bracket 18 which is attached by several fastening elements 19, such as screws, on and projecting from the cover 17. A handle 20 is movably mounted on a portion of the bracket 18. This handle is provided with a hook 21 for catching said seat 15 and indirectly connecting the seat 15 with the cover 17 so that these parts may be moved as a unit.

The bracket 18 includes a flanged portion 21 through which the fastening elements 19 engage for attaching the bracket to the cover 17. The bracket 18 also includes a stem portion 22. The handle 20 is slidably mounted on this stem portion. A flange 23 is formed on the stem 22 and limits inward motion of the handle 20. The stem 22 has a reduced outer end portion 24. A nut 25 is fixedly mounted on the outer end of the reduced portion 24. The handle 20 has a cavity 26 for accommodating the nut 25 so that the handle 20 may slide outwards when desired.

Means is provided for urging the handle 20 into one position in which the hook 21 normally engages the seat 15, or in another position in which the hook 21 is normally disengaged from the seat 15. With this arrangement it is possible to manually move the handle 20 for engaging or disengaging the hook 21 and the seat, as desired.

This means is characterized by an annular member 27 which is engaged over the reduced end 24 of the stem 22. The annular member 27 has a pair of diametrically opposite pins 28 which engage into bayonet slots 29 formed in the handle 20. A spring 30 engages against one side of the annular member 27 and against the nut 25. Another spring 31 engages against the other side of the annular member 27 and the shoulder of the stem 23 immediately adjacent the base of the reduced portion 24.

The springs 30 and 31 are so designed that with the pins 28 in the right hand ends of the bayonet slots 29, the spring 30 will be under compression while the spring 31 is loose. In this position of the parts the spring 30 acts to urge the handle 20 inwards so that the hook 21 normally engages the seat 15. In order to disengage the hook 21 from the seat 15 it is necessary that the handle 20 be manually moved outwards. When the pins 28 are disposed in the left hand ends of the bayonet slots 29 the spring 31 will be under compression while the spring 30 will be loose. The spring 31 then functions to urge the handle 20 outwards and the parts assume the positions illustrated in Fig. 4. It is necessary that the handle 20 be manually moved inwards to connect the hook 21 with the seat 15.

Having thus described my invention, what I claim as new, and desire to secure by United States Letters Patent is:

1. In a water closet having a seat pivotally mounted at its rear end and a cover for said seat also pivotally mounted at its rear end and a cover for said seat also pivotally mounted at its rear end, a handle movably mounted on the rear end of said seat and a cover pivotally mounted on said seat, a handle movably mounted on both said seat and cover, attached on and projecting from said cover, a handle movably mounted on said bracket and provided with a hook for catching said seat and indirectly connecting it with said cover, means for urging said handle into one position or another position for the reason described, comprising an annular member adjustable mounted within said handle, and springs on the opposite sides of said annu-
lar member and their outer ends bearing against portions of said bracket.

2. In a water closet having a seat pivotally mounted at its rear end and a cover for said seat also pivotally mounted at its rear end, a bracket attached to said cover and having a projecting stem, a tubular handle slidably mounted on said stem, a hook mounted on said handle and in the pushed in position of said handle said hook being engageable with said seat locking said seat and cover together as a unit, and means for holding said handle in a pushed in operative position or in a pulled out inoperative position in which said hook is free of said seat, comprising an annular member slidably mounted on an intermediate portion of said stem, a spring coaxially mounted on said stem on one side of said annular member and operating between said annular member and a stop on the inner end of said stem, a second spring coaxially mounted on said stem on the other side of said annular member and operating between said annular member and a stop on the outer end of said stem, and means for holding said annular member in one position or the other for compressing one or the other of said springs to hold said handle in either its operative or its inoperative position.

3. In a water closet having a seat pivotally mounted at its rear end and a cover for said seat also pivotally mounted at its rear end, a bracket attached to said cover and having a projecting stem, a tubular handle slidably mounted on said stem, a hook mounted on said handle and in the pushed in position of said handle said hook being engageable with said seat locking said seat and cover together as a unit, and means for holding said handle in a pushed in operative position or in a pulled out inoperative position in which said hook is free of said seat, comprising an annular member slidably mounted on an intermediate portion of said stem, a spring coaxially mounted on said stem on one side of said annular member and operating between said annular member and a stop on the inner end of said stem, a second spring coaxially mounted on said stem on the other side of said annular member and operating between said annular member and a stop on the outer end of said stem, means for holding said annular member in one position or the other for compressing one or the other of said springs to hold said handle in either its operative or its inoperative position, said last mentioned stop, comprising a nut mounted on the outer end of said stem.

4. In a water closet having a seat pivotally mounted at its rear end and a cover for said seat also pivotally mounted at its rear end, a bracket attached to said cover and having a projecting stem, a tubular handle slidably mounted on said stem, a hook mounted on said handle and in the pushed in position of said handle said hook being engageable with said seat locking said seat and cover together as a unit, and means for holding said handle in a pushed in operative position or in a pulled out inoperative position in which said hook is free of said seat, comprising an annular member slidably mounted on an intermediate portion of said stem, a spring coaxially mounted on said stem on one side of said annular member and operating between said annular member and a stop on the inner end of said stem, a second spring coaxially mounted on said stem on the other side of said annular member and operating between said annular member and a stop on the outer end of said stem, means for holding said annular member in one position or the other for compressing one or the other of said springs to hold said handle in either its operative or its inoperative position, said last mentioned means, comprising pins projecting from diametrically opposite sides of said annular member and engaging complementary bayonet slots formed in opposite sides of said handle.

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