Feb. 24. 1925. 1,527,340

A. C. WOOD

COLLAPSIBLE COMMODE

Filed Dec. 19, 1923 2 Sheets-Sheet 1

Fig. 1.

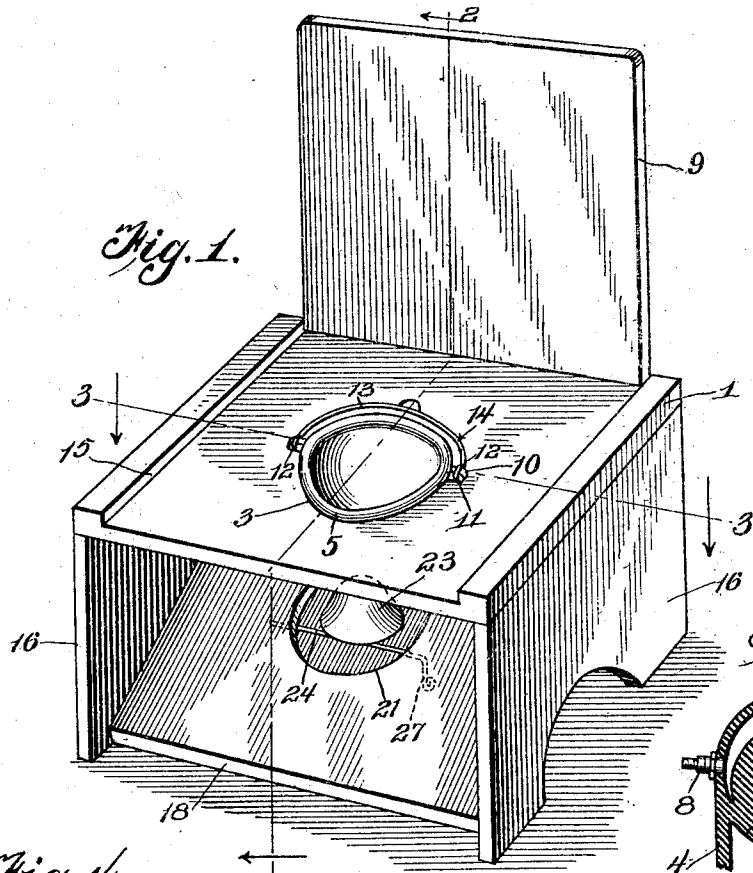


Fig. 8.

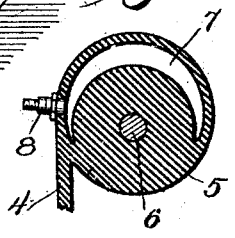
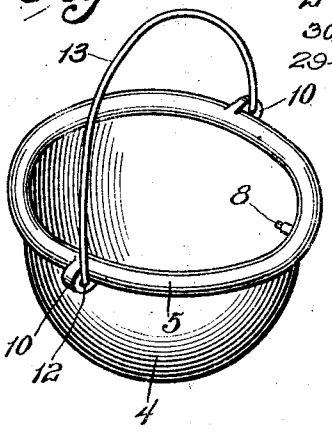


Fig. 4.



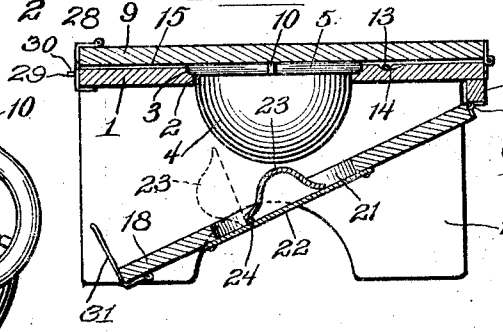


Fig. 2.

Inventor
Arthur Charles Wood

F. Bruce Talbot
Atty

Feb. 24, 1925. 1,527,340

A. C. WOOD

COLLAPSIBLE COMMODE

Filed Dec. 19, 1923 2 Sheets-Sheet 2

Fig. 3.

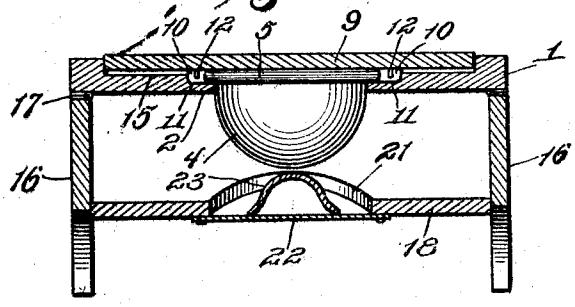


Fig. 9.

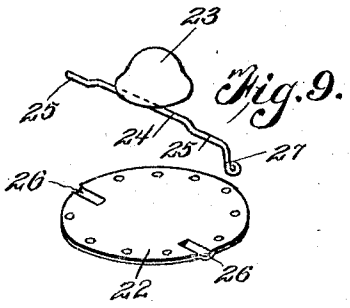


Fig. 5.

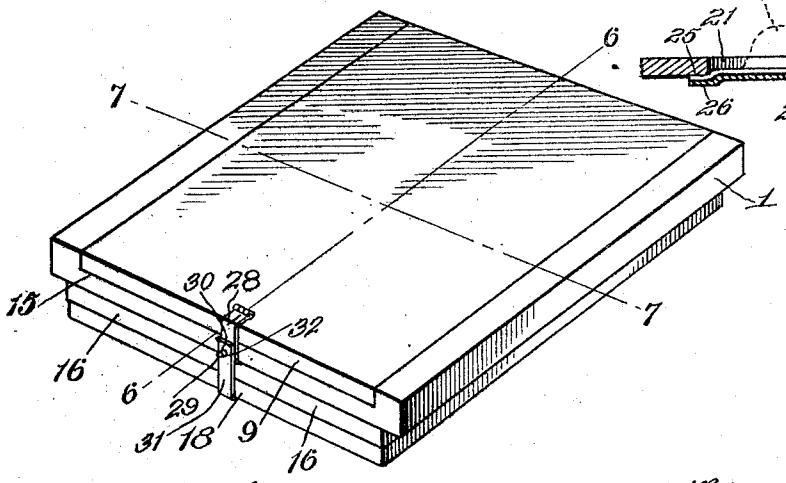


Fig. 10.

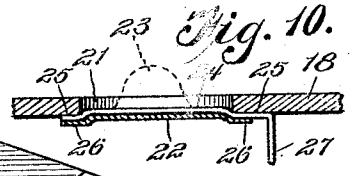


Fig. 7.

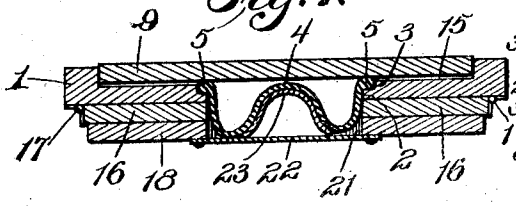
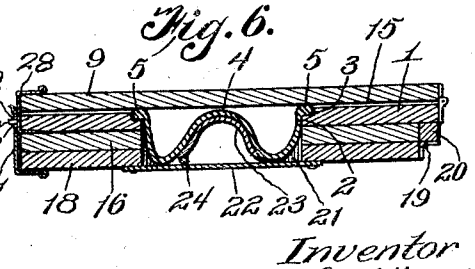


Fig. 6.



Inventor
Arthur Charles Wood
F. Bruce Talbot
Atty

Patented Feb. 24, 1925. 1,527,340

UNITED STATES PATENT OFFICE.

ARTHUR CHARLES WOOD, OF RAINIER, OREGON.

COLLAPSIBLE COMMODE.

Application filed December 19, 1923. Serial No. 681,552.

To all whom it may concern:

Be it known that ARTHUR CHARLES WOOD, a citizen of Great Britain, residing at Rainier, in the county of Columbia and State of Oregon, has invented new and useful Improvements in Collapsible Commodes, of which the following is a specification.

Automobile tourists in traveling about the country, frequently stop at hotels even though they have automobiles provided with sleeping accommodations due to inconveniences, and to lessen this expense, the present invention has for its purpose a collapsible structure of commode the cover of which, when the commode is erect, is hingedly mounted and has a tight joint with the margin of the excrement receiving receptacle, thereby rendering the commode sanitary.

Another purpose is the provision of means for removably supporting the excrement receiving receptacle whereby it may be easily and readily removed so that it may be cleansed, and when in position and the cover of the commode closed, a tight joint is insured between the upper margin of the receptacle and the cover.

Still another purpose is the provision of an excrement receiving receptacle having an air cushion about the margin thereof to insure a tight joint with the cover.

A further purpose is the provision of a commode which is collapsible, with a member to hold the legs of the commode in upright positions when opened, with a member carried by a tilting plate for collapsing the excrement receiving receptacle (which is pliable) upwardly in the center when the legs are collapsed and the bottom or member with the receptacle collapsing device on it is folded.

A still further purpose is the provision of means adjacent the margin of the opening in the seat for the reception of diametrically opposite projections of the margin of the excrement receiving receptacle so that, when the receptacle is in position, the handle of the receptacle may seat in a groove adjacent the margin of the opening in the seat.

It is to be understood that the particulars herein given are in no way limitative and that, while still keeping within the scope of the invention, any desired modifications of detail and desired proportions may be made in the apparatus according to the circumstances.

The invention comprises further features and combinations of parts to be hereinafter set forth, shown in the drawings and claimed.

In the drawings:

Figure 1 is a view in perspective of the improved commode constructed in accordance with the invention, with the legs in perpendicular positions and the cover opened.

Figure 2 is a vertical sectional view on line 2—2 of Figure 1, showing the bottom which carries the tilting plate lowered and the receiving receptacle supported on the seat with the cover closed and in contact with the margin of the receiving receptacle.

Figure 3 is a sectional view on line 3—3 of Figure 1 at right angles to that shown in Figure 2.

Figure 4 is an enlarged detail perspective view of the excrement receiving receptacle.

Figure 5 is a perspective view of the commode collapsed.

Figure 6 is a sectional view on line 6—6 of Figure 5 longitudinally thereof.

Figure 7 is a sectional view on line 7—7 of Figure 5 transversely thereof.

Figure 8 is an enlarged detail sectional view through the margin of the excrement receiving receptacle to show the pneumatic space and the embedded wire.

Figure 9 discloses views of the plate 22 and the shaft 24 and projection 23.

Figure 10 is a sectional view through the base 18 showing the plate 22.

Referring to the drawings, 1 designates the commode seat which is provided with an opening 2 which may be any suitable shape, preferably of the contour usually employed. This opening has a marginal groove 3 for the marginal portion of an excrement receiving receptacle 4. In fact, this receptacle is constructed from any suitable material, preferably pliable or flexible rubber, so that it may be easily cleansed to insure sanitation.

The marginal rim of the receptacle is considerably thickened and embedded in this marginal rim 5, as shown in Figure 8, is a heavy wire 6 which acts to reinforce the upper margin of the receptacle. This thickened marginal rim has an air space 7 which may be easily inflated, as at 8, by applying a tube of a pneumatic pump (not shown) to the check valve inflating tube 8, so that the exterior thin wall of the air space may contact with the cover 9 of the commode and

insure a tight joint, such as will preclude the escape of odors.

The marginal rim 5 is provided with diametrically opposite lugs 10 which, when the excrement receiving receptacle is in position, engage diametrically opposite recesses 11 adjacent the groove 3. The lugs 10 are for the purpose of providing connections for the hooked ends 12 of the bail handle 13. When the lugs 10 are engaged with the recesses 11 with the receptacle in position, the bail handle seats in a semiannular groove 14 which extends from one recess 11 to the other recess. In this way, the handle, when the excrement receiving receptacle is in position in the opening 2 of the seat 1 of the commode, is embedded below the surface of the seat, while the marginal rim of the excrement receiving receptace protrudes slightly above the surface of the commode seat, thereby permitting the cover 9 of the commode to contact with the relatively thin surface adjacent the pneumatic space 7 to insure a tight joint with the under surface of the cover.

When it is desired to remove the excrement receiving receptacle, the handle may be tilted from engagement with the semiannular groove and the receiving receptacle lifted from the opening in the seat. The receptacle may be thoroughly cleansed and replaced. When the receiving receptacle is replaced, it is obvious that the commode can be readily collapsed, as shown in Figures 5, 6 and 7.

The seat has a countersink or depression 15 for the reception of the cover 9 when the latter is closed. Legs or supports 16 are hinged to the under surface of the seat, as at 17. These legs or supports may be disposed in perpendicular positions to hold the seat in place. When the legs or supports 16 are lowered, the base 18 is first lowered, whereby the legs or supports may be positioned perpendicularly, after which the base 18 may be moved between the legs or supports, allowing the front edge of the base to engage with the floor or ground on which the commode is supported. The base is hinged, as at 19, to a cleat 20 at the rear of the under face of the seat.

The base 18 acts to support or reinforce the two legs 16, when lowered, and is provided with an opening 21 which is closed by a plate 22. This plate is preferably circular and is secured to the base 18 and has opposite depressed seats 26 in which opposite end portions 25 of a shaft 24 engage. The depressed seats are axially aligned and are offset from a diametral line intersecting the center of the plate. Secured to the shaft 24 in any suitable manner is a cone or protrusion 23 which, when the shaft is rocked by turning the handle 27, acts to collapse the flexible or pliable excrement receiving receptacle when the commode is collapsed. In other words, the cone or protrusion bears against and forces the bottom of the excrement receiving receptacle up through the center of the opening in the commode seat. When the excrement receiving receptacle is in use and the base 18 disposed in an inclined position as in Figure 2, the cone or protrusion 23 may be moved to a dotted line position, as in Figure 2, out of the way of the receptacle 4.

The cover 9 has a clasp 28 hinged thereto and is adapted to spring under the front edge of the commode seat when the cover is closed. This clasp 28 has a projection 29 provided with a small aperture 30 and hinged to the under face of the base 18 is a second clasp 31 which has an aperture or opening 32 through which the projection 29 engages, that is, when the various parts of the commode are collapsed, it being the purpose to insert the shackle of a padlock (not shown) or a cotter pin or the like (not shown) through the opening or aperture 30 formed in the projection 29, thereby retaining the various parts of the commode in collapsed positions.

The invention having been set forth, what is claimed is:

1. A commode comprising a seat provided with collapsible legs and having a central opening, an excrement receiving receptacle arranged in the opening which has a marginal groove for the margin of the receptacle to support the latter in position, and a handle countersunk in the seat and operatively connected to diametrically opposite sides of the receptacle for removing the latter from the opening.

2. An excrement receiving receptacle for commodes comprising a bowl-shaped body provided with a stiffened perimeter, said perimeter having a pneumatic portion to conform to the irregularities of the body and to insure a tight joint with a commode cover.

3. A commode comprising a seat provided with collapsible legs and having a central opening, an excrement receiving receptacle arranged in the opening which has a marginal groove for the margin of the receptacle to support the latter in position, a handle countersunk in the seat and operatively connected to diametrically opposite sides of the receptacle for removing the latter from the opening, supports for the commode seat, and means between the supports to reinforce the same and provided with a device for collapsing the bottom of the excrement receiving receptacle upwardly when the reinforcing means and the supports are collapsed.

4. In a commode, the combination with a commode seat provided with an opening, of an excrement receiving pliable receptacle operatively supported in said opening, op-

posed supports for the seat, and means operatively connected to the seat and engaged between the supports to reinforce them, said means provided with a device for collapsing the pliable receptacle upwardly when the reinforcing means and the supports are collapsed.

5. In a commode, the combination with a commode seat provided with an opening, of an excrement receiving pliable receptacle operatively supported in said opening, opposed supports for the seat, means operatively connected to the seat and engaged between the supports to reinforce them, said means provided with a device for collapsing the pliable receptacle upwardly when the reinforcing means and the supports are collapsed, the margin of the excrement receiving receptacle being countersunk in the seat, and means for facilitating the removal of the receptacle when the cover is in an open position.

6. In a commode, the combination with a commode seat provided with an opening, of a hinged cover for the seat, a pair of hinged collapsible supports for the seat, means to hold the supports in perpendicular positions to support the seat comprising a swinging base, and an excrement receiving receptacle removably mounted in said opening and being collapsible between the base and the cover when the base and the cover are collapsed with the supports between the base and the seat.

7. A commode comprising a seat, an excrement receiving receptacle carried by the seat and formed with pliable or flexible walls depending below the seat, and a member pivotally attached to the seat and provided with a collapsing element for the receptacle upon movement of the said member towards the seat, said collapsing element being mounted on said member for selective movement into or out of obstruction relation with said receptacle.

In testimony whereof he affixes his signature.

ARTHUR CHARLES WOOD.