

May 15, 1956

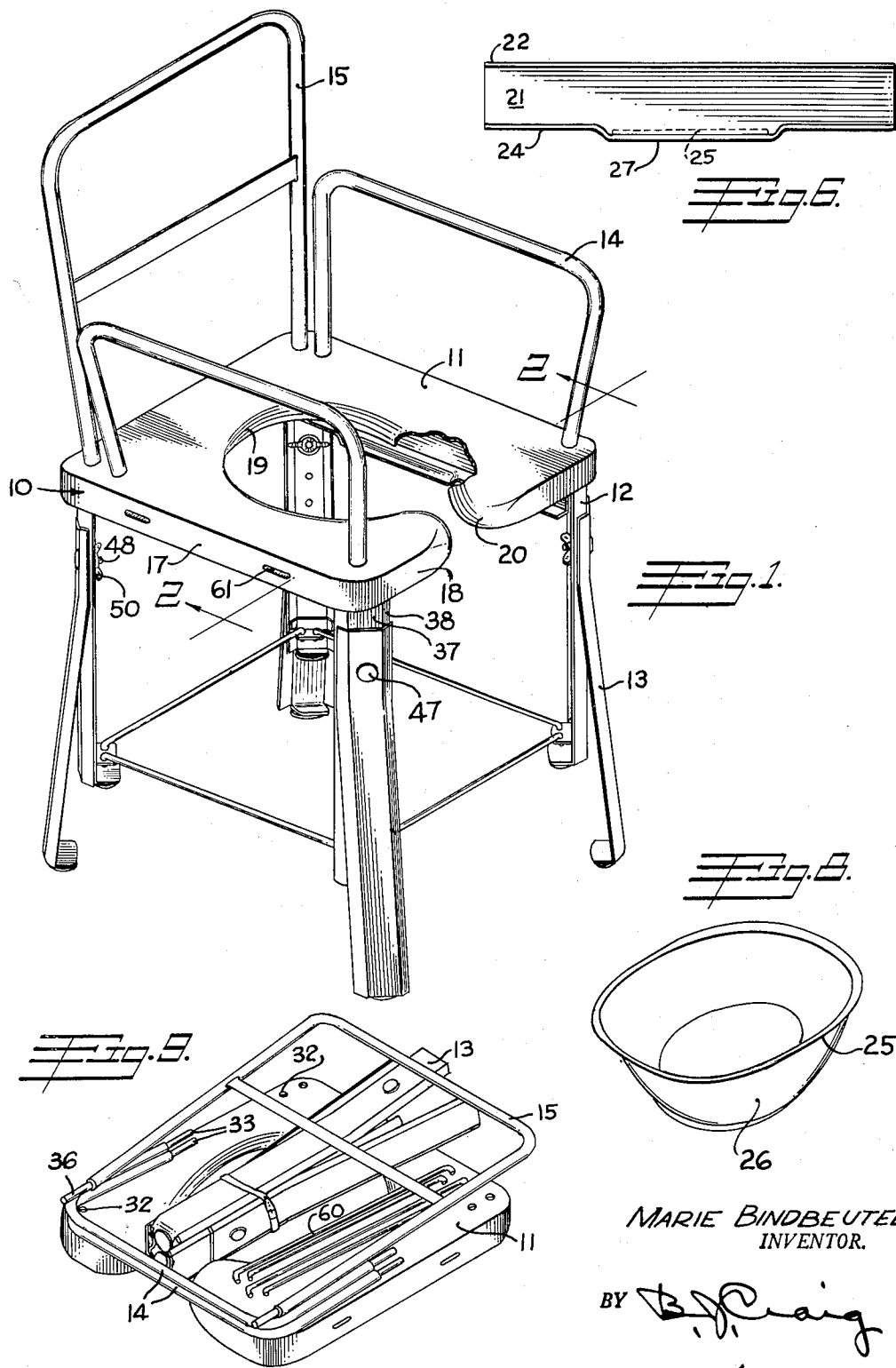
M. BINDBEUTEL

2,745,112

COMMODE

Filed Aug. 6, 1953

2 Sheets-Sheet 1



MARIE BINDBEUTEL,
INVENTOR.

BY B. Craig
ATTORNEY.

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M. BINDBEUTEL

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2 Sheets-Sheet 2

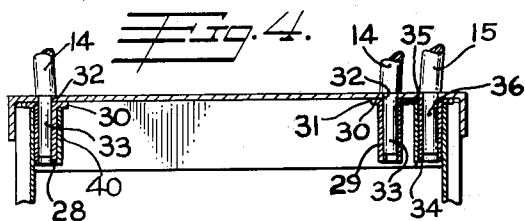
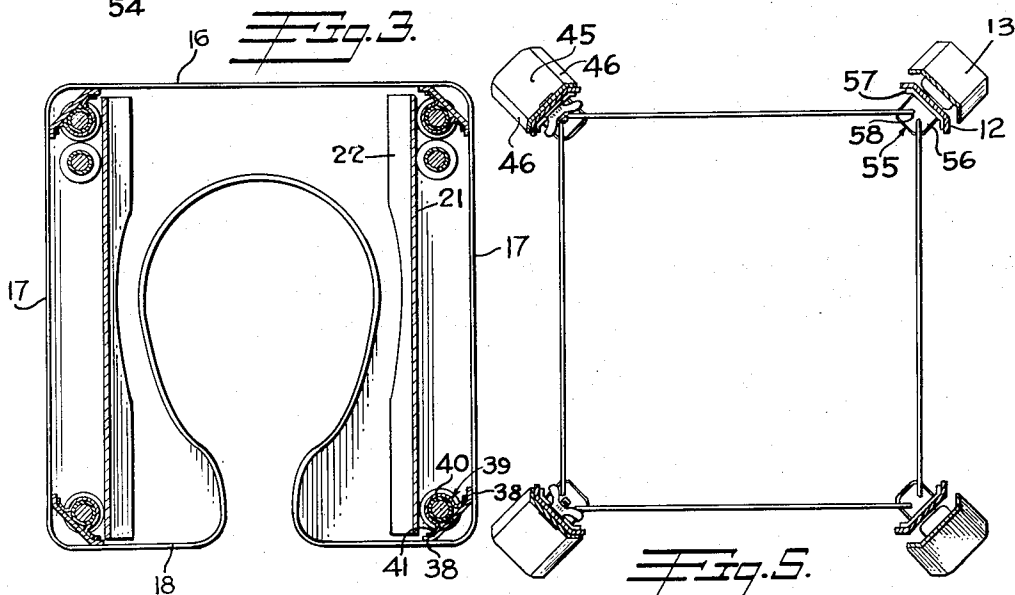
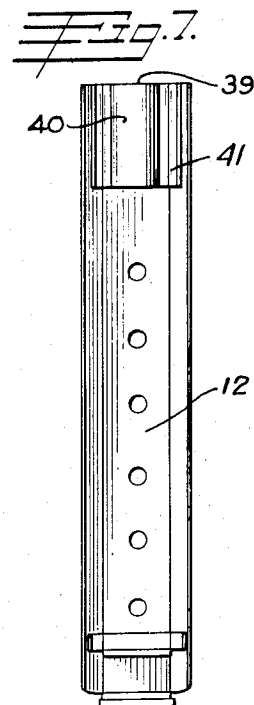
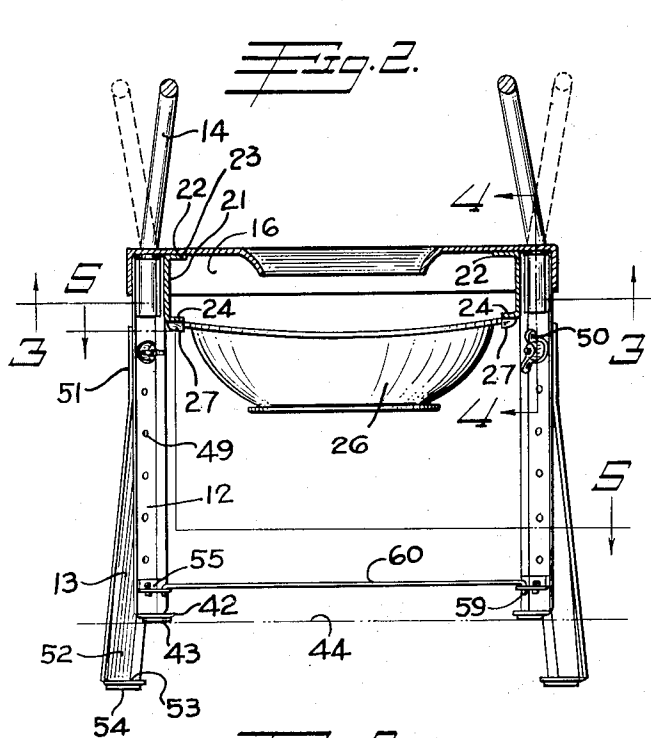


Fig. 5.

MARIE BINDBEUTEL,
INVENTOR.

BY *[Signature]*
ATTORNEY.

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2,745,112

COMMODORE

Marie Bindbeutel, South San Gabriel, Calif.

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5 Claims. (Cl. 4—134)

This invention relates to a commode.

The general object is to provide a commode which is simple in construction and which is particularly adapted for the use of invalids.

A further object of the invention is to provide a commode wherein the arms and back may be removed so that a patient may be readily and with comfort placed upon the commode.

Another object of the invention is to provide a commode having novel adjustable and removable arms.

An additional object of the invention is to provide a novel leg structure for a commode.

A further object of the invention is to provide a novel collapsible commode.

Other objects and advantages of the invention will be apparent from the following description taken in connection with the accompanying drawings, wherein:

Fig. 1 is an isometric view showing a commode embodying the features of the invention;

Fig. 2 is a vertical section taken on line 2—2, Fig. 1, with the receptacle in place;

Fig. 3 is a section taken on line 3—3, Fig. 2;

Fig. 4 is a section taken on line 4—4, Fig. 2;

Fig. 5 is a section taken on line 5—5, Fig. 2;

Fig. 6 is an elevation of the receptacle supporting channel;

Fig. 7 is a front elevation of one of the main legs;

Fig. 8 is a perspective view showing the receptacle; and Fig. 9 is a perspective view showing the commode collapsed and ready for packaging for shipping or for storing.

Referring to the drawing by reference characters the invention is shown as embodied in a commode as indicated generally at 10. As shown, the commode includes a seat 11, main legs 12, extension legs 13, arms 14 and a back 15.

The seat 11 is preferably made of metal or plastic and if made of metal may be a stamping and if made of plastic may be molded. If made of metal the seat may be made of steel and if made of plastic it may be a glass-fiber reinforced resin.

The seat includes a rear flange 16, side flanges 17 and opposed front flanges 18. The seat includes a flanged aperture 19 which is open at the front as at 20.

Arranged beneath the seat at opposite sides of the aperture 19 I arrange channel members 21, the upper flange 22 of which is secured to the lower surface of the seat as by welding as at 23. The lower flanges 24 provide rails which support flanges 25 on a receptacle 26.

In order that the receptacle 26 may be properly positioned beneath the aperture 19 the flanges 24 have slightly depressed portions 27 into which the receptacle flanges 25 fit when the receptacle is correctly spaced.

In order to hold the arms 14 removably in place I provide a pair of sleeves 28 and 29 along each side of the seat. These sleeves have external flanges 30 welded as at 31 to the lower surface of the seat. The sleeves 28 and 29 have their bores aligned with cylindrical apertures 32 in the seat. The arms 14 may be made of metal and have

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reduced, spaced, parallel ends 33 which extend through the holes 32 and into the sleeves 28 and 29.

The arms 14 above the seat are arranged in a plane inclined at an angle to the plane of the portions 33 so that the arms may be arranged either in the full line position shown in Fig. 2, or may be arranged in the broken line position shown in Fig. 2, to satisfy the requirements of the patient.

Adjacent to each sleeve 29, I arrange a sleeve 34, which has a flange 35 welded to the seat. The lower reduced ends 36 of the back 16 are arranged in the sleeves 34.

Each main leg 12 includes a face portion 37 and similarly inclined edge flanges 38. Each main leg is provided at its upper end with an attaching member 39 which includes a substantially semi-cylindrical portion 40 and reversely bent flanges 41 which engage the flanges 38 on the leg. The semi-cylindrical portions 40 are of a size to fit upon the exterior of the sleeves 28 and 34 and the flanges 38 are so disposed that they resiliently and tightly engage the inner surface of the flanges 16, 17 and 18 on the seat 11 to thus hold the parts in assembled relation. It will thus be seen that the sleeves 28 and 34 have a double function in that they support the arms and back which are inserted in their bores and that they support the main legs, the parts of which are disposed about them. Each main leg is provided with a bottom flange 42 which has a rubber pad 43 thereon. The pad 43 may engage a surface 44 (Fig. 2) to arrange the seat at a normal height.

To arrange the seat at a greater height I provide extension legs 13, each of which includes a body 45 and edge flanges 46 which latter are inclined to engage the edge flanges 38 of the main legs 12.

Each extension leg has a head 47 of a threaded fastener 48 projecting inwardly therefrom. This fastener 48 may extend into any one of a series of holes 49 in the main legs 12. Thumb screws 50 engaging the members 48 serve to hold the extension legs in adjusted position. The extension legs preferably include vertical upper ends 51 and divergent lower legs 52. The divergence of the portions 52 affords a wider bearing area when the extension legs are employed and this is desirable since it gives greater stability to the chair.

The lower portions of the extension legs have flanges 53 on which rubber pads 54 are mounted.

In order to brace the main legs 12 when desired I provide each of these legs with a bracket 55 which includes a horizontal portion 56 and a vertically directed flange portion 57 which latter may be welded to the legs 12. The horizontal portions 56 each includes spaced apertures 58 which receive the bent ends 59 of brace members 60.

Having thus described my invention I claim:

1. In a commode, a seat, said seat including an aperture and having a downwardly directed flange about the aperture, said seat having a downwardly directed rear edge flange, a pair of downwardly directed side edge flanges and having a pair of spaced downwardly directed front edge flanges, a channel member secured to the lower surface of the seat at each side of the aperture, a front sleeve and a rear sleeve disposed at each side of the seat, each sleeve having a flange secured to the lower surface of the seat, said seat having holes therein, said holes being aligned with the sleeve bores, a pair of U-shaped arms each having parallel free ends passing through said seat holes and removably secured in the sleeves, a back supporting sleeve secured adjacent to the rear sleeve at each side of the seat, said seat having holes aligned with the bores of the back supporting sleeves, a U-shaped back having its free ends arranged in said back supporting sleeve bores, and a set of legs, each leg including a face portion having an edge flange at each side thereof, each leg having an attaching member thereon, each attaching member including a substantially semi-

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cylindrical portion and reversely bent flanges, said last mentioned flanges being secured to the flanges on the associated legs, each attaching member semi-cylindrical portion engaging about one of said sleeves, the leg flanges each resiliently engaging the seat edge flanges.

2. In a commode, a seat, said seat including an aperture and having a downwardly directed flange about the aperture, said seat having downwardly directed edge flanges, a front sleeve and a rear sleeve disposed at each side of the seat, and secured to the seat, said seat having holes therein, said holes being aligned with the sleeve bores, a pair of U-shaped arms each having parallel free ends of reduced diameter passing through said seat holes and secured in the sleeves, a back on said seat, a set of main legs, each main leg including a face portion having an edge flange at each side thereof, each main leg having an attaching member secured thereon, each attaching member including a substantially semi-cylindrical portion, each attaching member semi-cylindrical portion engaging about one of said sleeves, the main leg flanges each resiliently engaging the seat edge flanges, an extension leg including a body engaging the main leg face portion and edge flanges engaging the main leg edge flanges, and means to hold the extension legs in adjusted position on the main legs.

3. In a commode, a seat, said seat including an aperture and having a downwardly directed flange about the aperture, said seat having a downwardly directed rear edge flange, a pair of downwardly directed side edge flanges and having a pair of spaced downwardly directed front edge flanges, a channel member secured to the lower surface of the seat at each side of the aperture, the lower flanges of the channel being opposed to each other and being adapted to slidably receive a receptacle, said channel lower flange having spaced depressed portions adapted to position the receptacle, a front sleeve and a rear sleeve disposed at each side of the seat, each sleeve having a flange secured to the lower surface of the seat, said seat having holes therein, said holes being aligned with the sleeve bores, a pair of U-shaped arms each having parallel free ends of reduced diameter passing through said seat holes and removably secured in the sleeves, the upper ends of said arms being bent so that they are arranged in a plane inclined to the axis of the sleeves, whereby the arms may be adjusted to different positions, a back supporting sleeve secured adjacent to the rear sleeve at each side of the seat, said seat having holes aligned with the bores of the back supporting sleeves, a U-shaped back having reduced free ends arranged in said back supporting sleeve bores, a set of legs, each leg including a face portion having an edge flange at each side thereof, each leg having an attaching member thereon, each attaching member including a substantially semi-cylindrical portion and reversely bent flanges, said last mentioned flanges being secured to the flanges on the associated legs, each leg having a bottom flange and having a cushion on the lower face of the bottom flange, each attaching member semi-cylindrical portion engaging about one of said sleeves and the flanges on each attaching portion engaging a leg flange, the leg flanges each resiliently engaging the seat edge flanges, and brace members releasably connecting the main legs.

4. In a commode, a seat, said seat including an aperture and having a downwardly directed flange about the aperture, said seat having a downwardly directed rear edge flange, a pair of downwardly directed side edge flanges and having a pair of spaced downwardly directed front edge flanges, a channel member secured to the lower surface of the seat at each side of the aperture, the lower flanges of the channels being opposed to each other and being adapted to slidably receive a receptacle, said lower flange having spaced depressed portions adapted to position the receptacle, a front sleeve and a rear sleeve disposed at each side of the seat, each sleeve having a

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flange secured to the lower surface of the seat, said seat having holes therein, said holes being aligned with the sleeve bores, a pair of U-shaped arms each having parallel free ends of reduced diameter passing through said seat holes and removably secured in the sleeves, the upper ends of said arms being bent so that they are arranged in a plane inclined to the axis of the sleeves, whereby the arms may be adjusted to different positions, a back supporting sleeve secured adjacent to the rear sleeve at each side of the seat, said seat having holes aligned with the bore of the back supporting sleeves, a U-shaped back having reduced free ends arranged in said back supporting sleeve bores, a set of main legs, each main leg including a face portion having an edge flange at each side thereof, each main leg having an attaching member thereon, each attaching member including a substantially semi-cylindrical portion and reversely bent flanges, said last mentioned flanges being secured to the flanges on the associated legs, each main leg having a bottom flange and having a cushion on the lower face of the bottom flange, each attached member semi-cylindrical portion engaging about one of said sleeves and the flanges on each attaching portion engaging a main leg flange, the main leg flanges each resiliently engaging the seat edge flanges, an extension leg including a body engaging the main leg flanges each resiliently engaging the seat edge leg edge flanges, each extension leg having a bottom flange and having a cushion on the lower face of the bottom flange, means to hold the extension legs in adjusted position on the main legs, and brace members releasably connecting the main legs.

5. In a commode, a seat, said seat including an aperture which is open at the front of the seat, said seat having a downwardly directed flange about the aperture, said seat having a downwardly directed rear edge flange, a pair of downwardly directed side edge flanges and having a pair of spaced downwardly directed front edge flanges merging into the aperture flange, a vessel receiving member secured to the lower surface of the seat at each side of the aperture, a front sleeve and a rear sleeve disposed at each side of the seat, means to secure each sleeve to the lower surface of the seat, said seat having holes therein, said holes being aligned with the sleeve bores, a pair of U-shaped arm each having parallel free ends passing through said seat holes and removably secured in the sleeves, a back supporting sleeve secured adjacent to the rear sleeve at each side of the seat, said seat having holes aligned with the bores of the back supporting sleeves, a U-shaped back having its free ends arranged in said back supporting sleeve bores, and a set of legs, each leg having an attaching member thereon, each leg attaching member including a substantially semi-cylindrical portion, each leg attaching member semi-cylindrical portion engaging about one of said sleeves.

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