March 2, 1948. F. W. COFFING 2,436,915

BED PAN SYSTEM

Filed April 20, 1945

FIG. 1

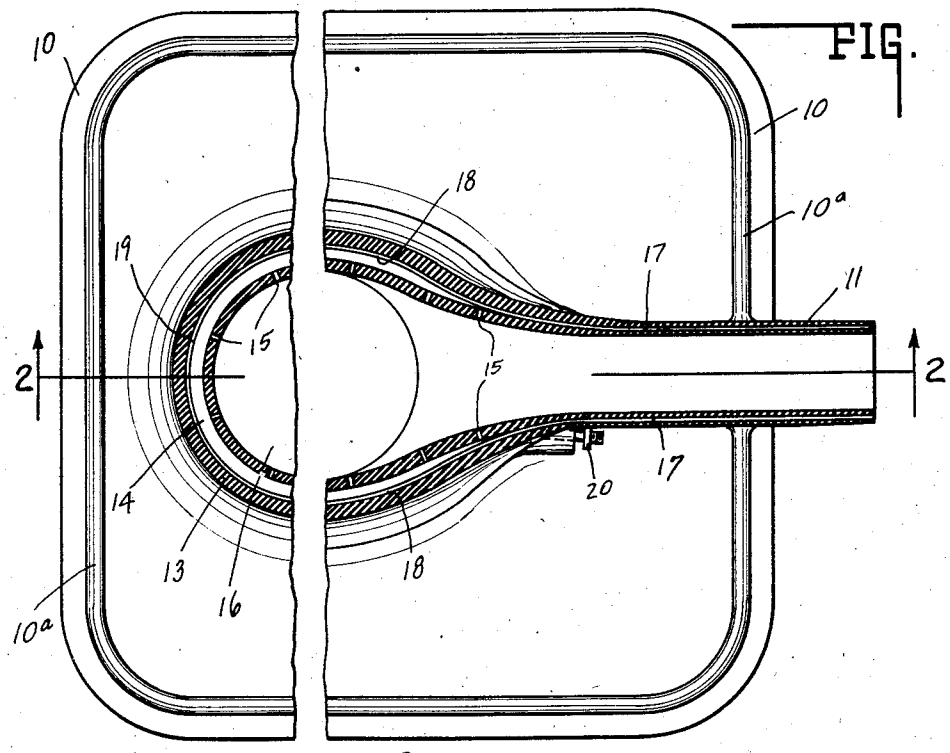


FIG. 2

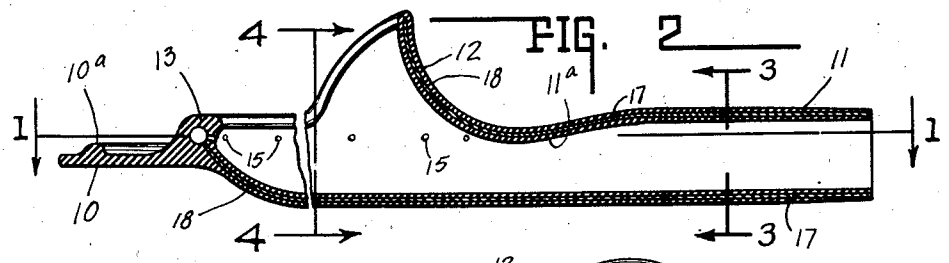


FIG. 3

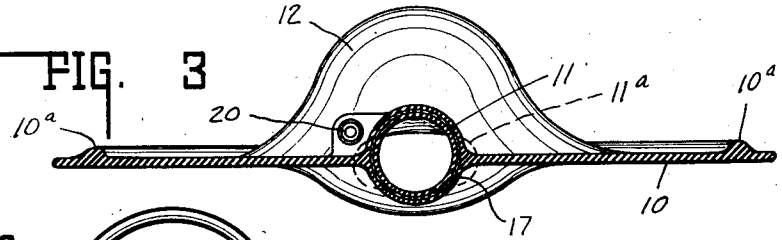
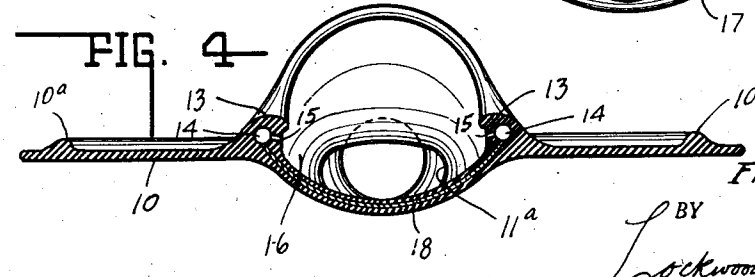


FIG. 4



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BEDPAN SYSTEM

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Application April 20, 1945, Serial No. 589,332

9 Claims. (Cl. 4—112)

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This invention relates to a bed pan structure.

The chief object of this invention is to provide a bed pan which is suction emptied and water washed, if desired and can be used on any type bed.

Another object of this invention is to provide a bed pan which is comparatively flat and does not require patient elevation to the degree required for conventional pan placement.

The chief feature of the present invention resides in providing a bed pan of minimum height and which has an elevated portion straddled by the patient's legs, which elevated portion is tubular and adapted for connection to a suction device such as a conventional vacuum cleaner and more particularly the hose extension thereof.

It may, however, be connected to the intake end of tube 2 of the vacuum cleaner illustrated in Patent 2,102,353, dated December 14, 1937, because the same discloses a water chamber 54 which may contain disinfectant and when wash water is utilized, such waste water is collectible in that chamber.

Since as indicated above suitable suction devices are available, same is not illustrated herein.

Other objects and features of the invention will be set forth more fully hereinafter.

The full nature of the invention will be understood from the accompanying drawings and the following description and claims:

In the drawings,

Fig. 1 is a horizontal sectional view taken on line 1—1 of Fig. 2 and in the direction of the arrows.

Fig. 2 is a vertical central sectional view taken on line 2—2 of Fig. 1 and in the direction of the arrows.

Fig. 3 is a transverse sectional view taken on line 3—3 of Fig. 2 and in the direction of the arrows.

Fig. 4 is a transverse sectional view taken on line 4—4 of Fig. 2 and in the direction of the arrows.

In the drawing 10 indicates a base of the desired outline and area. It is comparatively thin and may be of semi-hard rubber or plastic material and may have, if desired, slight resiliency. Such a base in effect is a pad and may have a rim 10*a*.

Formed centrally on and in the base and projecting forwardly thereof is a tubular portion 11, the forward free end of which is circular in section for connection to a suitable source of suction, as aforesaid. The plane of the base, as it were, see Fig. 2, lies approximately midway between the top and bottom of said tube. The tube and base preferably are integral.

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Centrally of the pad this tube is flattened as 11*a* and then flares laterally as well as upwardly, forming a forward guard 12. Rearwardly thereof is the elevated bowl forming rim 13. This rim may contain a tube 14 and from same extends the bowl lubricating ports 15.

The bowl proper is designated by numeral 16 and is defined by said rim 13 and lies below the plane of the pad, see Figs. 2 to 4. The tubular portion, bowl and guard, may be reenforced suitably as indicated at 17, 18 and 19, respectively.

Tube 14 is provided with any suitable intake fixture 20 adapted for connection to a source of water under the desired pressure. When tube 11 is connected to a suction device and ports 15 supply a controlled amount of water to the bowl, the faeces is easily sucked from the bowl since its surface is water lubricated. Also, since ports 15 are directed toward the bottom of the bowl and inwardly as well as toward tube 11 intake, the patient is not wet and the bowl surface is kept washed.

To use this bed pan the same can be presented from either side of the patient or from the front. The latter is preferred since buttocks elevation only to clear the rim 13 is required. Following proper positioning the source of suction is applied to the discharge end of tube 11 thereby applying suction to the pan and to the bottom thereof, see portion 11*a*.

If water is to be used it is connected at 20 and supplied to the bowl through ports 15. The human waste, solid and liquid, plus the waste water supplied by ports 15, is removed from the pan by suction, the patient covering a sufficient area of the bowl, etc., to insure sufficient suction for waste removal but not to such an extent that patient injury will result from the use of suction. A suitable shield may be used for a male patient, if necessary.

While the invention has been illustrated and described in great detail in the drawings and foregoing description, the same is to be considered as illustrative and not restrictive in character.

The several modifications described herein, as well as others which will readily suggest themselves to persons skilled in this art, all are considered to be within the broad scope of the invention, reference being had to the appended claims.

The invention claimed is:

1. A comparatively thin bed pan including a

pad-like base of appreciable area, a low rim defined shallow bowl formed therein and centrally disposed thereon and of appreciably less area than that of the base, a forwardly directed, centrally positioned, tubular discharge from the bowl adapted for connection at the outer end to a source of suction and disposed above and as a part of the base and merging into the rim at the intake end, and an upstanding guard at the junction of the intake end of the tubular discharge and the bowl, said discharge and guard being adapted to be positioned between and straddled by a patient's legs when the patient is seated upon the pan.

2. A bed pan as defined by claim 1 wherein the shallow bowl defining low rim includes a tube therein from approximately the junctions of the guard and rim, and an intake connection to the tube, the rim-bowl junction having bowl directed ports communicating at their inner ends with said tube for bowl lubrication.

3. A bed pan as defined by claim 1 wherein the guard extends upwardly and rearwardly from the intake end of the discharge and the guard side upper edges extend downwardly and rearwardly and outwardly toward the rim.

4. A bed pan as defined by claim 1 wherein the shallow bowl defining low rim includes a tube therein from approximately the junctions of the guard and rim, and an intake connection to the tube, the rim-bowl junction having bowl directed ports communicating at their inner ends with said tube for bowl lubrication, and the bowl portion includes a reenforcing means.

5. A bed pan as defined by claim 1 wherein the shallow bowl defining low rim includes a tube therein from approximately the junctions of the guard and rim, and an intake connection to the tube, the rim-bowl junction having bowl directed ports communicating at their inner ends with said tube for bowl lubrication, and the upstanding guard includes a reenforcing means.

6. A bed pan as defined by claim 1 wherein the shallow bowl defining low rim includes a tube therein from approximately the junctions of the guard and rim, and an intake connection to the tube, the rim-bowl junction having bowl directed ports communicating at their inner ends with said tube for bowl lubrication, and the bowl, rim and guard portions include suitable reenforcement.

7. A bed pan as defined by claim 1 wherein the shallow bowl defining low rim includes a tube therein from approximately the junctions of the guard and rim, and an intake connection to the tube, the rim-bowl junction having bowl directed ports communicating at their inner ends with said tube for bowl lubrication, and the bowl, rim, guard and tubular discharge include suitable reenforcement.

8. A bed pan as defined by claim 1 wherein the shallow bowl defining low rim includes a tube therein from approximately the junctions of the guard and rim, and an intake connection to the tube, the rim-bowl junction having bowl directed ports communicating at their inner ends with said tube for bowl lubrication, and the guard extends upwardly and rearwardly from the intake end of the discharge and the guard side upper edges extend downwardly and rearwardly and outwardly toward the rim.

9. A bed pan as defined by claim 1 wherein the shallow bowl defining low rim includes a tube therein from approximately the junctions of the guard and rim, and an intake connection to the tube, the rim-bowl junction having bowl directed ports communicating at their inner ends with said tube for bowl lubrication, and the guard extends upwardly and rearwardly from the intake end of the discharge and the guard side upper edges extend downwardly and rearwardly and outwardly toward the rim, and the bowl, rim, guard and tubular discharge include suitable reenforcement.

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