

C. E. JOHNSON.
SURGICAL APPLIANCE.
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1,178,644.

Patented Apr. 11, 1916.

Fig. 1.

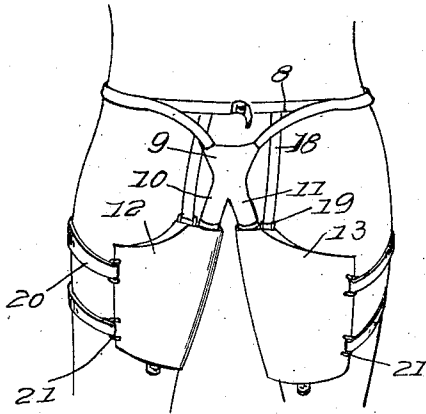


Fig. 2.

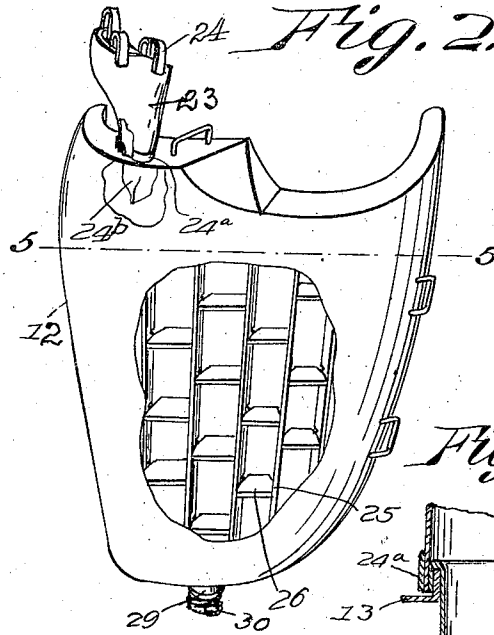


Fig. 7.

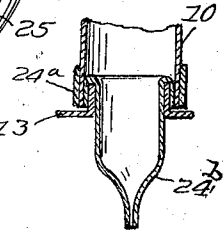


Fig. 3.

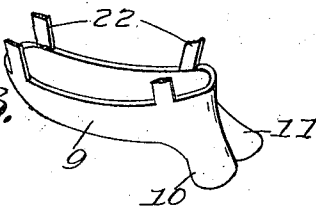


Fig. 4.

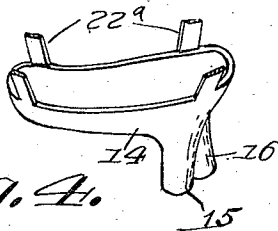


Fig. 5.

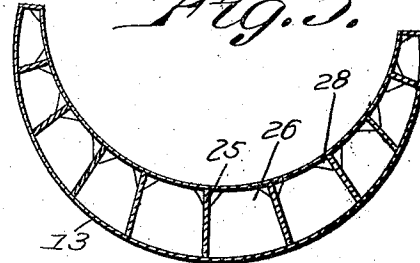


Fig. 6.

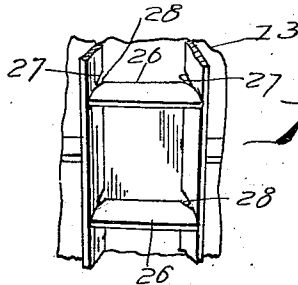
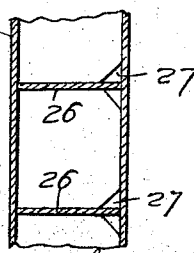


Fig. 8.



Witnesses
P. A. Putnam,
J. C. Barkley.

Inventor,
Charles E. Johnson,
by Frank A. Anderson,
Attorney

UNITED STATES PATENT OFFICE.

CHARLES E. JOHNSON, OF FOND DU LAC, WISCONSIN.

SURGICAL APPLIANCE.

1,178,644.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, CHARLES E. JOHNSON, a citizen of the United States of America, and resident of Fond du Lac, in the county of Fond du Lac and State of Wisconsin, have invented certain new and useful Improvements in Surgical Appliances, of which the following is a specification.

This invention relates to that class known as surgical appliances and particularly to the class thereunder relating to the catching of deposits from human organism; particularly to devices for catching and temporarily containing liquid discharges.

The present invention is designed for use of persons afflicted with incontinence, and the invention has for its object to provide a container or holder of such discharges which will withstand the deleterious acids or chemical properties of such deposits.

Furthermore, an object of this invention is to provide novel means within the container which will prevent splashing or pronounced movement of the liquid in the container; the invention furthermore contemplating the provision of novel means for preventing liquid from accidentally leaving the receptacle through the inlet orifice.

A further object of the invention is to provide novel means for catching or collecting the discharges and directing them to the container, the collectors for male and female being of the same general principle but differing in details of construction.

Heretofore, devices intended for like use have been made of rubber or compositions of matter which quickly deteriorate or disintegrate, but the subject of the present invention is preferably constructed in part of a metal which does not readily corrode or oxidize, hence is durable and efficient.

With the foregoing and other objects in view, the invention consists in the details of construction, and in the arrangement and combination of parts to be hereinafter more fully set forth and claimed.

In describing the invention in detail, reference will be had to the accompanying drawings forming part of this specification, wherein like characters denote corresponding parts in the several views, and in which—

Figure 1 illustrates a view in elevation showing the invention as used; Fig. 2 illustrates an enlarged detail view of a container or receptacle broken away to show the internal construction; Fig. 3 illustrates a per-

spective view of a collector embodying one form of the invention; Fig. 4 illustrates a collector of slightly modified construction; Fig. 5 illustrates a sectional view on the line 5—5 of Fig. 2; Fig. 6 illustrates a fragment of the interior of the container; Fig. 7 illustrates a sectional view of the joint between the nipple and the container; Fig. 8 illustrates a vertical sectional view of a fragment of the container.

In these drawings 8 denotes a belt or band consisting of a sling for supporting the device.

9 denotes a collector of one form having two branch pipes or nipples 10 and 11 leading to the containers or receptacles 12 and 13 respectively. In the case of females, a collector of slightly different configuration may be employed, the same consisting of the elongated body 14 open at the top and provided with two nipples 15 and 16 adapted for connection to a container.

The containers 12 and 13 are suspended from the wearer in any appropriate manner as by straps 18 fastened by hooks and eyes 19 and the receptacles are further fastened to a wearer by leg-encircling straps 20 having their ends connected to loops or eyes 21 at the edges of the containers. The collectors have tabs 22 for the attachment of suspending means of any appropriate type and the suspending means are attached to the belt or yoke 8.

In Fig. 2 is illustrated a modified form of collector of the single type delivering into a receptacle 13 and in this form the collector 23 has loops 24 by which it is attached to a yoke.

The nipples of the different collectors have connection with flanges 24^a on the containers and a flexible tube 24^b leads from the interior of each collector to the interior of a container, the said tube being of such flexibility as to yield to the pressure of liquid so that it collapses and operates as a valve to prevent flow of liquid from within the receptacle.

The interior of each receptacle is preferably divided by approximately vertical and horizontal partitions or baffles 25 and 26 respectively, the said partitions having cut away portions at 27 and 28 respectively, in order that liquid may pass the partitions in a gradual flow but be prevented from rapid movement, which would result in splashing.

The bottom of each receptacle has a nip-

ple 29 with a threaded cap 30 to be removed when draining the receptacle.

As shown in the drawing, the receptacle is of concaved configuration to better adapt it to the contour of the part of the anatomy to which it is applicable.

It is preferable that the receptacle be tapered from the top to the bottom thereof to conform approximately to the contour of the wearer.

It will be apparent from the disclosure herein that the receptacles are adapted to be worn singly or in pairs and that when worn singly, the container is attached to the inner and upper portion of the right or left thigh, the said single container encircling about one half the thigh and when used on one leg, only, it employs but one collector and nipple for directing the fluid to the container. Different forms of collectors are shown in which one or two nipples are employed and if a collector with two nipples is used with a single container, one of the nipples will, of course be closed, or left off, as in the single form but when containers are used on both thighs at the same time, both nipples are re-

quired to reach each container from the collector and conduct fluid to either or both containers at the same time, it being understood that the nipples are preferably provided with valves.

I claim—

A device relating to surgery comprising a receptacle curved to conform to the leg of the wearer, means for securing the receptacle to the body of the wearer, vertical partitions in the receptacle, and horizontal partitions between the vertical partitions, the horizontal partitions being arranged in stepped relation with each other to form compartments, each of the partitions having a cut out portion adjacent the point of their engagement with each other to provide communication between the compartments, and means for directing the fluid to the receptacle.

In testimony whereof, I affix my signature in the presence of two witnesses.

CHARLES E. JOHNSON.

Witnesses:

J. M. GOODING,
H. T. COLLINS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."