

(No Model.)

J. H. GREEN.
SEALING RING.

No. 455,397.

Patented July 7, 1891.

FIG. 1.

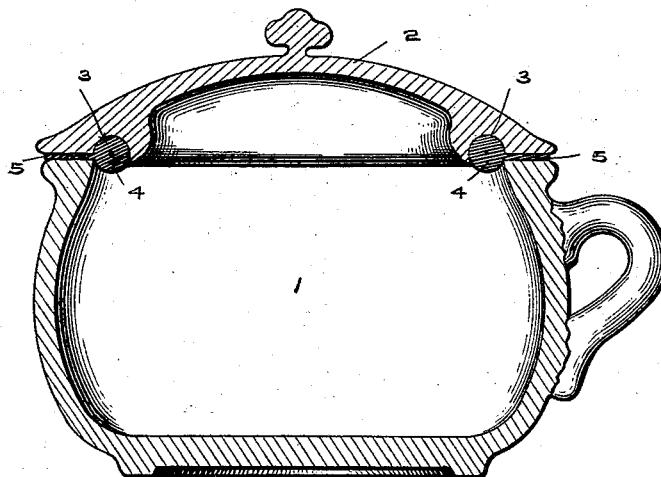
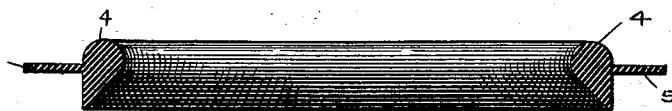


FIG. 2.



Witnesses

H. D. Nealy.
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By his Attorney

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UNITED STATES PATENT OFFICE.

JOHN H. GREEN, OF INDIANAPOLIS, INDIANA, ASSIGNOR OF ONE-HALF TO
WALTER R. BEARD AND EDGAR C. BEARD, BOTH OF SAME PLACE.

SEALING-RING.

SPECIFICATION forming part of Letters Patent No. 455,397, dated July 7, 1891.

Application filed December 8, 1890. Serial No. 373,854. (No model.)

To all whom it may concern:

Be it known that I, JOHN H. GREEN, of Indianapolis, county of Marion, and State of Indiana, have invented certain new and useful
5 Improvements in Sealing-Rings; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, in which like figures refer to like parts.

10 My invention relates to the construction of devices for sealing the joint between the cover and body of a hospital or chamber vessel and will be understood from the following description.

15 In the drawings, Figure 1 is a vertical sectional view of a vessel-cover with my device in place. Fig. 2 is a sectional view through the center of a modified form of the ring.

In detail, 1 is the vessel, which may be made
20 of any convenient size, shape, or material.

2 is the cover, having an annular groove 3, its area comprising a little more than one-half of a circle, which is formed in the under side of the cover between its inner edge and
25 the inner wall of the vessel. The sealing-ring is composed of a body portion 4, preferably circular, and a lateral thin flange 5, the upper part of the body adapted to fit closely into the groove 3, formed in the cover, and the
30 latter, being somewhat in excess of one-half of a circle, will be narrower at its opening than in the center, and the elastic body of the spring will have to be slightly compressed, so as to spring it into the channel of the groove, and it
35 will then be held in the walls of the groove and will not readily slip out. This ring is thus securely connected to the cover, and when the latter is lifted the ring will come away with it, and this allows the lower half of the vessel
40 to be made in the ordinary form, so that a cover of my construction with a sealing-ring attached is adapted to fit any circular vessel of similar diameter. The lateral flange 5 of

the ring makes an elastic cushion between the surface of the cover and the top edge of
45 the vessel, preventing any noise or breakage and making a close joint, thus preventing any gases, vapors, or effluvia from escaping from the vessel into the room, and the ring being
50 secured in this way is readily detached by the hand of the operator when it is desired to thoroughly cleanse all parts of the vessel.

In the form of the ring shown in Fig. 2 the lower half of the body of the ring is tapering, forming a lug which fits closely against the
55 side of the vessel all round, and in either of the forms shown the ring is closely attached to the cover in the same manner and has the same lateral flange, the only difference being in the extension of the lower part of the body
60 of the ring.

What I claim as my invention, and desire to secure by Letters Patent, is the following:

1. A sealing-ring composed of a rounded
65 part provided with a lateral flange and a projection below such flange, in combination with a vessel or cover having an annular groove in its under side, such groove being in section
70 angularly greater than a half-circle, the ring held in place by the edges of such groove, substantially as described.

2. A sealing-ring composed of a rounded
75 part provided with a lateral flange and a portion extending below such flange, the rounded part adapted to fit in a groove formed on the under side of a vessel-cover, such groove being
80 in section angularly greater than a half-circle, the ring held in place by the pressure of the edges of the groove, substantially as shown and described.

In witness whereof I have hereunto set my hand this 4th day of December, 1890.

JOHN H. GREEN.

Witnesses:

H. D. NEALY,
E. B. GRIFFITH.