

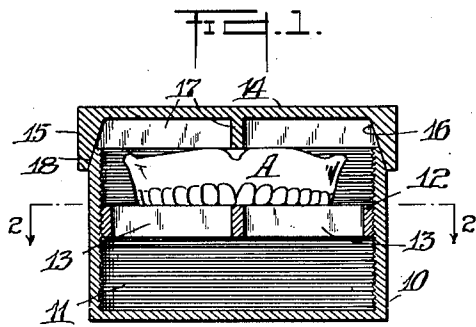
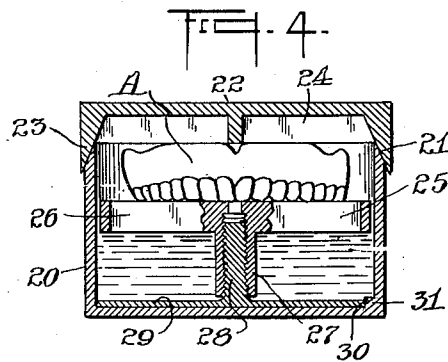
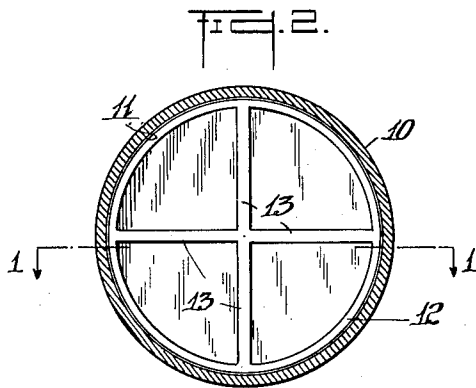
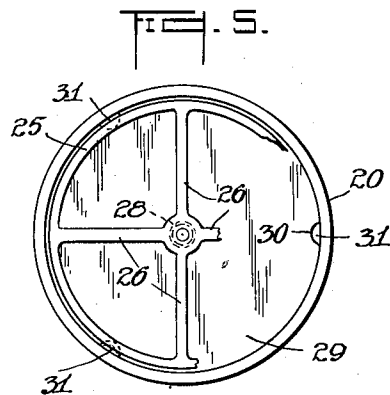
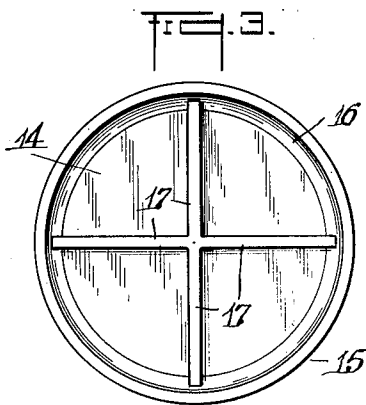
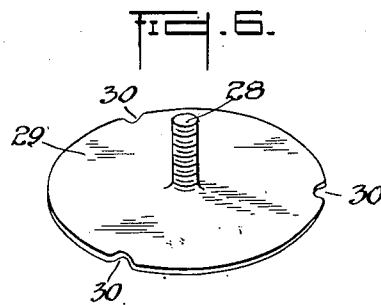
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2,565,899

PORTABLE CLEANSING DEVICE FOR ARTIFICIAL DENTURES

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PORTABLE CLEANSING DEVICE FOR
ARTIFICIAL DENTURES

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5 Claims. (Cl. 134-161)

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This invention relates to a portable cleansing device for artificial dentures.

For cleansing purposes, it is the usual practice to place the artificial denture or bridge-work in a cleansing solution and to allow the denture to remain in the solution until proper cleansing has taken place. The time consumed and the inconvenience of allowing the denture to remain in the solution are well known drawbacks to this practice and as a result the proper cleansing is often disregarded.

With the foregoing in mind it is the object of the present invention to provide a portable manually operable denture cleansing device which will permit one to firmly hold the plate or bridge-work within an enclosure containing a cleansing solution while manually imparting vigorous agitating movement to the container and to the solution and to provide means whereby the solution is brought into intimate cleansing contact with every part and crevice of the denture. The movement of the solution into forcible contact with the entire surface of the denture is most effective in keeping artificial dentures properly clean and wholesome and the firm hold on the denture itself while the agitating operation is taking place insures perfect safety for the plate and bridge-work.

I accomplish the object of my invention by means of a denture cleansing device embodying certain improved arrangements and combinations of parts hereinafter described, set forth in the appended claims and illustratively exemplified in the accompanying drawings, in which:

Figure 1 is a substantially longitudinal sectional view of the denture cleansing device taken on line 1-1 of Figure 2.

Figure 2 is a substantially transverse sectional view taken on line 2-2 of Figure 1.

Figure 3 is an elevational view of the cover piece looking into the same.

Figure 4 is a view similar to that of Figure 1 of a slightly modified construction of denture cleansing device.

Figure 5 is a top plan view of the container of Figure 4 with cover piece removed and a portion of the denture support broken away, and

Figure 6 is a perspective view of the base support for the adjustable denture support.

Referring to the drawings and particularly to Figures 1 to 3, inclusive, 10 denotes a cup shaped container having its inner wall threaded as at 11 to receive an adjustable exteriorly threaded denture support 12. The support 12 comprises a ring having an integral cross web 13 spanning

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the interior of container 10. The ring 12 is adjustable along the threads 11 to accommodate the denture or bridge-work A to be cleaned. The denture is rested upon the support 12, as illustrated in Figure 1 and a cover 14 placed on the container 10 after filling the same with the proper amount of cleansing fluid. The cover 14 consists of a disc-shaped top having a depending annular skirt 15, which is beveled inwardly on its inner wall to form a seat 16. A cross web 17 is disposed integral with the top and is of a depth short of the open end of the cover. The open end portion of the container 10 is outwardly beveled, as at 18 to form a complementary seat 19 for the cover seat 16, as illustrated in Figure 3. When the device is grasped between the fingers of the user, the pressure thus applied will cause sealing contact of seats 16 and 18, to establish a leak proof joint between cover and container, whereby the liquid cleansing content will not leak to the outside as the container is rapidly shaken by hand to perform the cleansing operation.

Referring now to the modified embodiment illustrated in Figures 4 to 6, the container 20 is a cup shaped member with a beveled lip 21 at its upper end and a cover 22 with beveled depending skirt 23 to form a seat with the lip 21 and an interiorly disposed cross piece 24 to press down upon the denture A. The denture A is supported upon an adjustable support 25 comprising a ring, cross web 26 and depending interiorly threaded hub 27. The hub 27 is screwed over an upstanding threaded post 28 carried upright on a disc 29, which rests upon the bottom of the container 20, and which is provided with spaced peripheral notches 30 to fit over lugs 31 disposed in the lower corners of the interior of the container to prevent rotation of the disc, as illustrated in Figure 4.

To use the denture cleansing device, the support 12 or 25 is adjusted to the proper elevation within its container 10 or 20 to accommodate the denture A to be cleansed. This setting of the height of the denture rest or support will remain fixed for the particular denture or can be altered when more than one denture is involved. The denture A is then placed upon the support and the cover is applied, so as to bring the cross web 17 or 24 against the denture to firmly clamp the same between the cover and support when manual pressure is applied. With the correct adjustment of the support 12 or 25 the joint between cover and container is completely sealed by the manual pressure and the cleansing oper-

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ation may be started by supplying the correct amount of cleansing fluid to the container and shaking same for the necessary time for the fluid to cleanse the denture.

From the foregoing detailed description it will be understood that the denture support and the denture engaging means are of an open work character to make but limited contact with a denture and provide ample space, both above and below a firmly held denture, between the surfaces of the denture and the inner surface of the cover and the base of the container respectively, and provide access to said space for cleansing liquid within the container to freely flow substantially over the entire denture to effectively cleanse the denture when the device is vigorously shaken.

Having described my invention and the manner in which the same is operated, what I claim and desire to secure by Letters Patent is:

1. A portable cleansing device for artificial dentures comprising a liquid container and a removable cover for said container, cooperating means on said container and on said cover for providing a liquid-tight seal therebetween, a denture support adjustably mounted within the container, a denture engaging means carried by the cover for firmly holding a denture mounted on the denture support when the cover is held on the container, the denture support being adjustable toward and away from the open end of the container to accommodate dentures of various thickness, the denture support and the denture engaging means being of an open-work character to make but limited contact with a denture and provide ample space, both above and below a firmly held denture, between the surfaces of the denture and the inner surface of the cover and the base of the container respectively, and provide access to said spaces for cleansing liquid within the container to freely pass over substantially the entire denture to effectively cleanse the denture when the device is vigorously shaken.

2. A portable cleansing device according to claim 1 wherein the means on the denture support within the container and the denture en-

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gaging means carried by the cover, between which the denture is held, are in the form of ribs on said respective members.

3. A portable cleansing device according to claim 1 wherein the adjustment of the denture support within the container is provided by a screw-threaded part on the support engaging complementary screw-threads within the container.

4. A portable cleansing device according to claim 1 wherein the adjustment of the denture support within the container is provided by an externally screw-threaded annular rim on the denture support engaging a complementary internal screw-thread on the container.

5. A portable cleansing device for artificial dentures comprising a cup-shaped vessel, a notched disc resting on the bottom thereof, a threaded center post carried by the disc, a denture support having a threaded portion to screw over said post to adjust the elevation of the support in the vessel, lugs in the vessel engaging the notches in the notched disc to prevent rotation of the disc and the post when the support is turned to adjust its elevation in the vessel, and a cover for the vessel to form a leak-proof seal for the vessel and having a depending web portion to engage and hold a denture supported on the support.

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