L. M. TAYLOR.

ASEPTIC CONTAINER FOR LONG HANDLED BROACHES.

APPLICATION FILED NOV. 8, 1915.

1,187,566. Patented June 20, 1916.

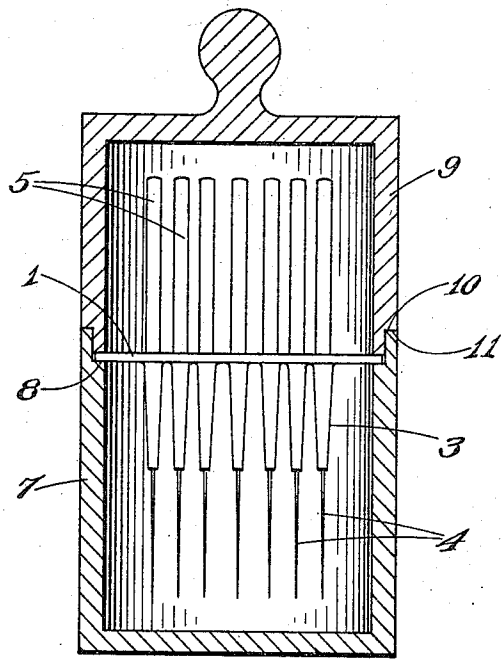


Fig. 1.

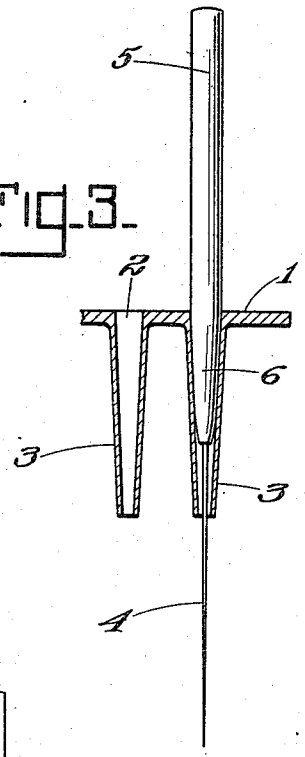


Fig. 3.

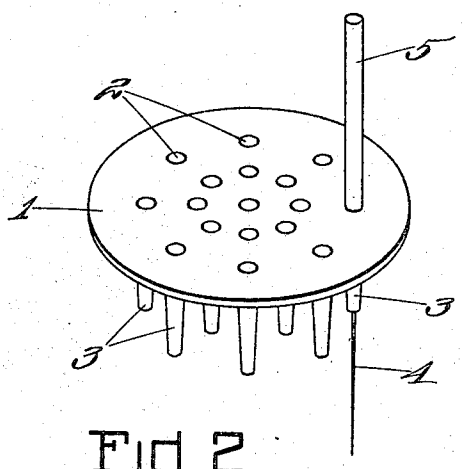


Fig. 2.

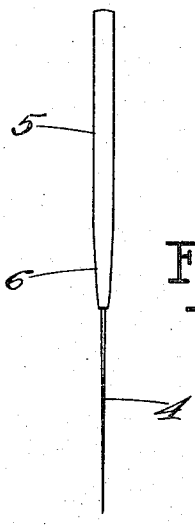


Fig. 4.

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ASEPTIC CONTAINER FOR LONG-HANDLED BROACHES.

1,187,566. Specification of Letters Patent. Patented June 20, 1916.

Application filed November 8, 1915. Serial No. 60,226.

To all whom it may concern:

Be it known that I, LEILA M. TAYLOR, a citizen of the United States, residing at Salem, county of Essex, State of Massachusetts, have invented a certain new and useful Improvement in Aseptic Containers for Long-Handled Broaches, of which the following is a specification, reference being had therein to the accompanying drawings.

A dentist requires the use of a large number of small instruments which must be kept at hand and readily accessible for immediate use so that he can quickly exchange one tool for another by reaching out with one hand while the other is occupied with the patient, and it is essential that these tools should be sterilized after use, and should be kept in aseptic condition while awaiting use. Among the tools thus frequently used are broaches of which the dentist requires a considerable number. Some of these are provided with long handles of vulcanite or other suitable material by which the broach may be held in the hand as for instance, the broach used for cleaning out the root canals or for putting dressings into the root canal of the tooth.

The object of the present invention is to provide a convenient form of holder for long handled broaches and a container for the same, of such construction that the broaches may be kept on the dentist's work table in convenient arrangement, spaced apart from each other and with the blades suspended free from contact with anything, so that there will be no danger of the broaches taking up germs while awaiting use; also to make the holder and container of such form and material that they may be thoroughly sterilized by boiling or other means before receiving the broaches. The container may or may not contain a sterilizing fluid, such as alcohol, while the broaches are in position.

The invention will be fully understood from the following description when taken in connection with the accompanying drawings and the novel features thereof will be pointed out and clearly defined in the claims at the close of this specification.

In the drawings, Figure 1 is a vertical sectional view of a container having therein a holder embodying the invention, the holder being shown with broaches contained therein. Fig. 2 is a perspective view of the holder disk removed from the container and showing only one broach in the holder. Fig. 3 is an enlarged sectional view of the disk, partly broken away, showing two tubular pockets for broaches, one pocket being empty and the other containing a broach. Fig. 4 is a view of one of the broaches such as the device is intended to hold.

Referring now to the drawings, 1 is the holder disk, preferably of circular form, and made of glass or porcelain or other non-absorbent material suitable to be boiled or dipped into a sterilizing fluid without injury to the disk. Said disk is made with a plurality of perforations 2, and in extension of each perforation there is a downwardly extending tubular pocket 3. This tubular pocket may be integral with the disk or may be of different material and inserted into the perforation, either as desired. The broaches 4 are each provided with a handle 5 of vulcanite or other suitable material permanently attached to the broach, and, as usually made, this handle has a downwardly tapering portion 6 at the lower end. The tubular pockets 3 also may be tapered downward, the interior diameter of the pocket 3 being less than the large diameter of the handle 5, so that when the broach is inserted in the pocket, the handle will not slip down entirely through the pocket, but will be seated therein. Preferably the diameter of the pocket at the top should be about the same as the large diameter of the handle 5.

The length of the tubes forming the pockets 3 is preferably greater than the length of the tapering portions of the handles so that the tube will extend some distance below the lower end of the handle, thus furnishing a protection or inclosure for the blade of the broach 4 for at least a portion of its length. This prevents any possibility of the broaches coming into contact with each other as they might do by reason of the possible slanting insertion of the handle in the pocket or wabbling movement of the handle in the perforation if it were not for the pocket extending below the perforation.

A container 7 is provided which consists of a cylindrical jar of sufficient diameter at the top to permit the disk 1 to be inserted and is provided with a ledge or internal annular flange 8 near the top on which the disk 1 is seated at a sufficient elevation above

the bottom of the box or container so that the lower ends of the broaches will be elevated above the bottom of the container.

A cover 9 is provided which shuts over the top of the container, said cover being preferably of the same exterior diameter as the exterior diameter of the container 7 and is formed with its lower end of reduced exterior diameter forming a shoulder 10 which rests on the shoulder 11 forming the top of the container 7. When the broaches are not in use the cover will be left on, thereby completely closing the top of the container so that no dust or foreign matter can get into the container. When the broaches are in use, the cover will be removed. The disk holder 1, however, will be left in the container and the handles 5 will project above the top of the container, all spaced apart from each other so that whenever the dentist desires to use one of the broaches, it is very easy to grasp one of them by the handle and lift it out of the holder.

What I claim is:

1. A dental broach holder comprising a disk having a plurality of perforations and tubular pockets formed in extension of said perforations, in combination with a container consisting of a jar having an inner annular shoulder near the upper end which forms a seat for the said disk holder, the depth of the container below the seat for the disk holder being sufficient so that when the broaches are seated in the holder the lower ends of the broaches will be out of contact with the bottom of the container.

2. A dental broach holder comprising a disk having a plurality of perforations and tubular pockets formed in extension of said perforations, in combination with a container consisting of a jar having an inner annular shoulder near the upper end which forms a seat for the said disk holder, the depth of the container below the seat for the disk holder being sufficient so that when the broaches are seated in the holder the lower ends of the broaches will be out of contact with the bottom of the container, and a close fitting cover for the container.

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

LEILA M. TAYLOR.

Witnesses:
WILLIAM A. COPELAND,
ALICE H. MORRISON.

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