E. A. BROWN.

DENTAL TRAY.

APPLICATION FILED OCT. 26, 1915.

1,226,457. Patented May 15, 1917.

Fig. 1.

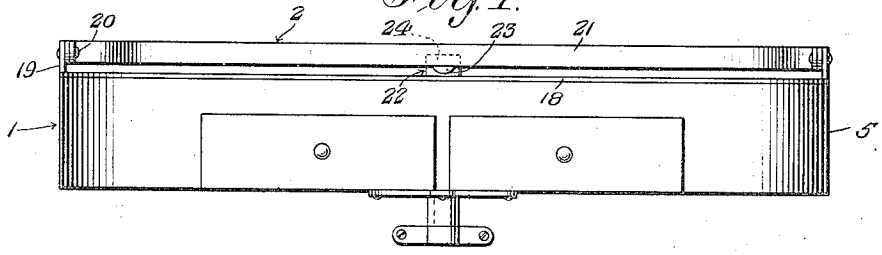


Fig. 2.

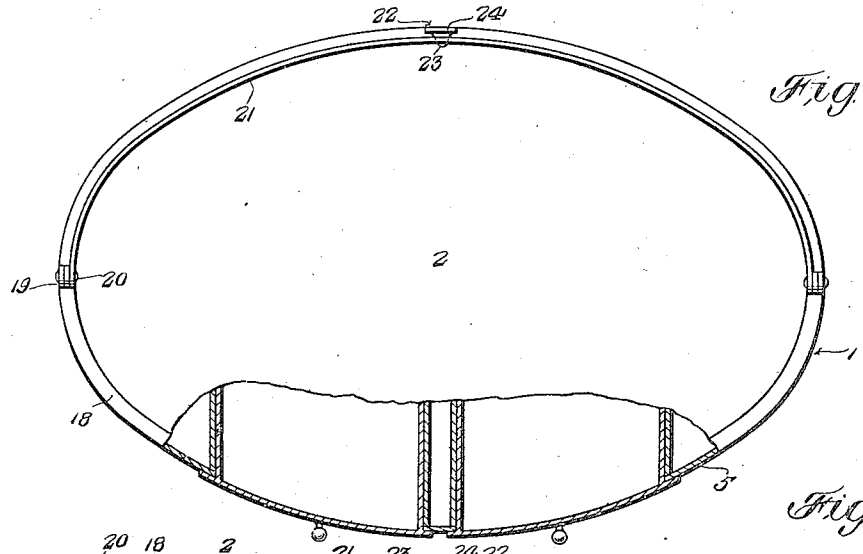
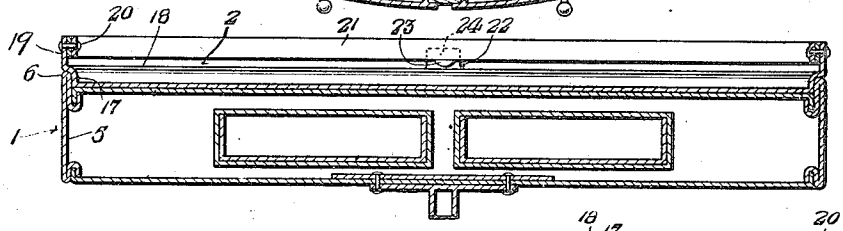


Fig. 3.



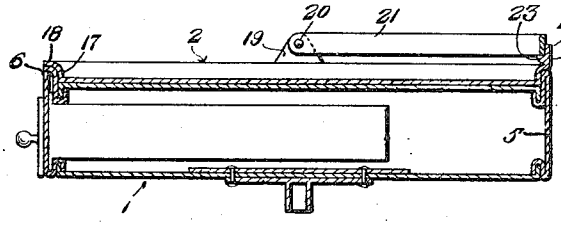


Fig. 4.

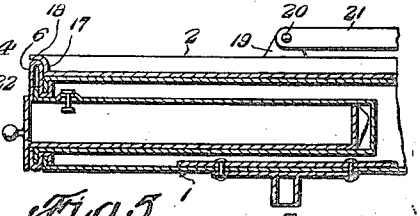


Fig. 5.

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DENTAL TRAY.

1,226,457. Specification of Letters Patent. Patented May 15, 1917.

Application filed October 26, 1915. Serial No. 58,001.

To all whom it may concern:

Be it known that I, EVAN A. BROWN, a citizen of the United States, residing at Tacoma, in the county of Pierce and State of Washington, have invented new and useful Improvements in Dental Trays, of which the following is a specification.

My invention relates to improvements in dental trays, and one of its objects is to provide a tray of oval form, whereby the tray may be accommodated in a comparatively small amount of working space, while at the same time presenting a comparatively larger amount of surface for supporting the various instruments in spread out condition and within easy reach of the operator.

A further object of the invention is to provide a removable tray which will be held securely in position upon a dental bracket table against accidental displacement, while it is readily removable after each dental operation for sterilization, etc.

A still further object of the invention is to provide a tray having a bail handle which is curved on the same arc as one of the longitudinal sides of the tray, so that when turned down to an inoperative position it will be out of the way of the operator and at the same time will serve as a guard rail to prevent the instruments from falling upon the floor.

The invention consists of the features of construction, combination and arrangement of parts herein fully described and claimed, reference being had to the accompanying drawing in which:—

Figure 1 is a view in front elevation of a combined table and tray embodying my invention.

Fig. 2 is a top plan view of the same.

Fig. 3 is a vertical longitudinal section along the line of the major axis of the table and tray.

Fig. 4 is a vertical transverse section along the line of the minor axis of the table and tray.

Fig. 5 is a vertical section through a portion of the table and the tray as shown in Fig. 4.

In the illustrated disclosure of my invention, 1 designates a dental bracket table in connection with which my improved dental tray 2 is preferably used both the table and tray being made of oval or approximately oval form and of sheet metal or other suitable material capable of being readily and conveniently cleansed and sterilized. As shown, this table has a side wall 5 extending upwardly above the plane of its top surface and provided with a marginal rim portion 6 which surrounds said top surface.

The upstanding tray 2 is adapted to rest upon the upper surface of the table within the space surrounded by the side wall 5, and is provided with an upturned marginal flange 17 to bear against the marginal rim 6 of the table, whereby accidental displacement of the tray from the table is prevented. Preferably this flange 17 is formed or provided with an outwardly extending horizontal rim 18 to extend outward over the wall 5, thus providing a smooth marginal surface when the tray is in position which prevents the passage of any dirt or foreign substance between the parts 5 and 18 and permits of instruments and materials being moved over the surface of the rim of the tray without interference. At the ends of the tray are upstanding ears 19, to which are pivoted, as at 20, the ends of a bail-shaped handle 21. This handle 21 is adapted to be turned upward to a vertical position to lie in vertical alinement with the major axis of the tray, so as to permit the tray to be conveniently manipulated and transported. The tray with the instruments resting thereon is thus adapted to be readily removed from the table after each dental operation so that the tray and instruments may be sterilized, as will be readily understood. The handle is curved on an arc which coincides with that of the rim on one side of the longitudinal center of the tray, which portion of the rim is provided with a centrally disposed lug or projection 22 forming a horizontal shoulder 23 and a vertical lip 24 at the outer side of said shoulder. When the handle is turned down to an out-of-the-way position when the tray is in use, it rests upon the shoulder 23 and against the lip 24 and is supported in a substantially horizontal position. In this position the handle forms a railing around one half, namely the rear half, of the tray which cooperates with the adjacent portion of the wall 5 to form a guard to prevent instruments or materials from falling off the tray at the rear end on to the floor.

The mode of use of the tray will be readily understood from the foregoing description, and it will be seen that the oval form of the tray provides an article of this character

which may be disposed in a comparatively compact space and yet will give a major extent of surface in close proximity to the dentist on which instruments and materials may be spread out with advantage and so as to be within the convenient reach of the dentist. At the end of each dental operation the handle may be elevated to a vertical position and the tray with its instruments lifted off the table and conveyed to a proper point for sterilization. Other advantages of the invention will be apparent from the foregoing description.

I claim:—

1. A tray of oval-form having a marginal vertical wall comprising a vertical flange, a horizontal rim portion projecting outwardly from the flange and an upstanding portion parallel with but offset from the plane of the flange and connected therewith by said horizontal rim portion, and a handle pivotally mounted upon said upstanding portion to fold down into the tray upon the inner side of said portion so as to overhang said horizontal rim portion.

2. A tray of oval-form having an upstanding marginal wall, a bail-shaped handle pivoted to said wall and of a form corresponding to the form of the wall at one side of the table, and supporting means upon the wall to hold the bail slightly elevated above the bottom of the tray when turned down to a horizontal position.

3. A tray of oval-form having an upstanding marginal wall, ears at the ends of the tray, a bail-shaped handle pivoted to said ears and of a form corresponding to the form of the marginal wall at one side of the tray, and a supporting member projecting upwardly from said wall to hold the bail slightly elevated above the bottom of the tray when turned down to a horizontal position.

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

EVAN A. BROWN.

Witnesses:
C. E. McFARLAND,
H. A. MILLER.