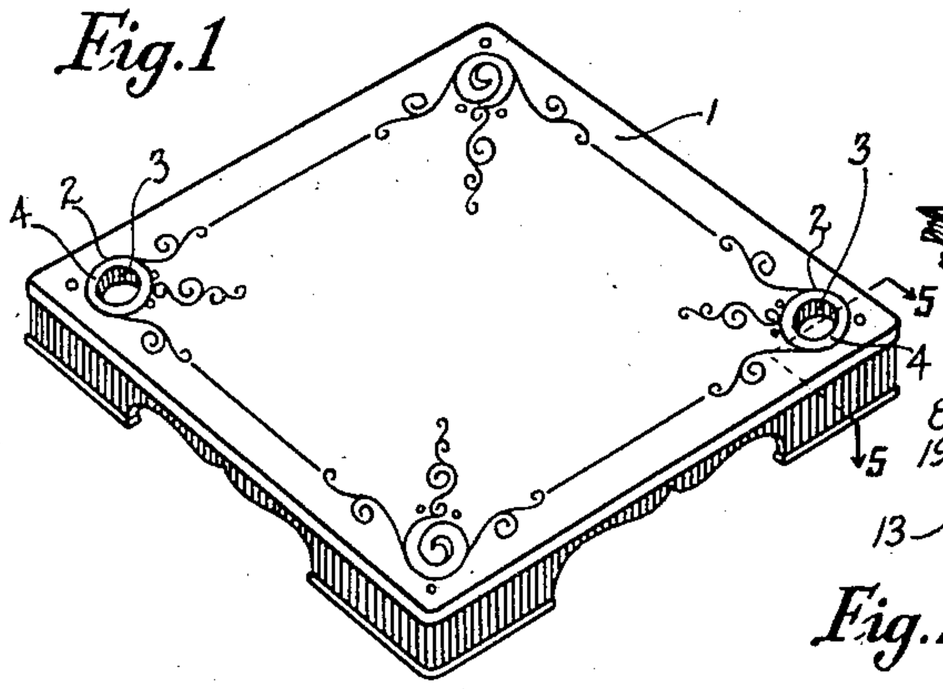
Feb. 14, 1933. W. APPEL 1,897,717

TABLE ATTACHMENT

Filed Aug. 10, 1931

Fig.1



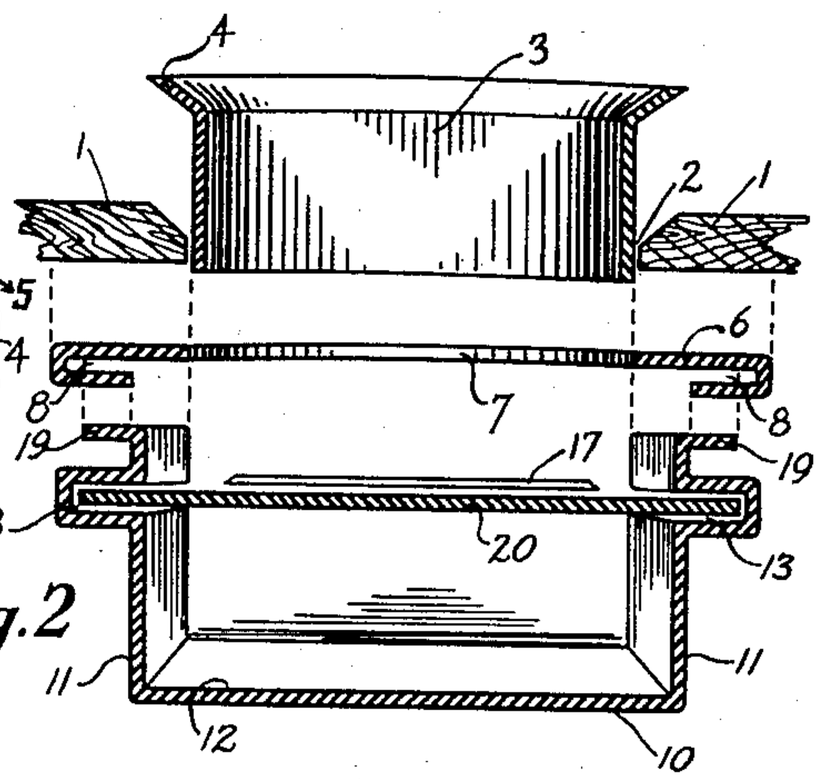


Fig.2

Fig.3

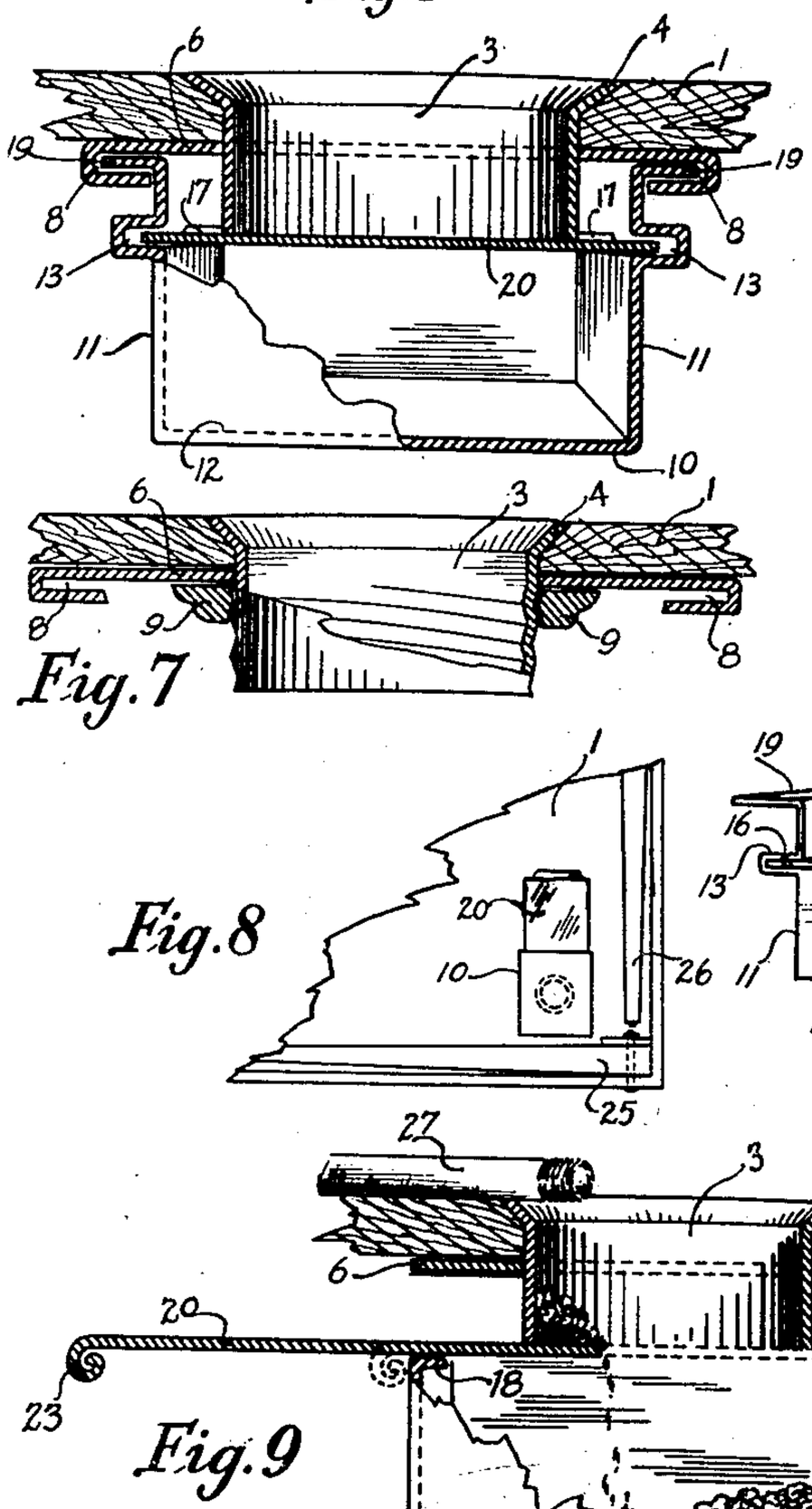


Fig.4

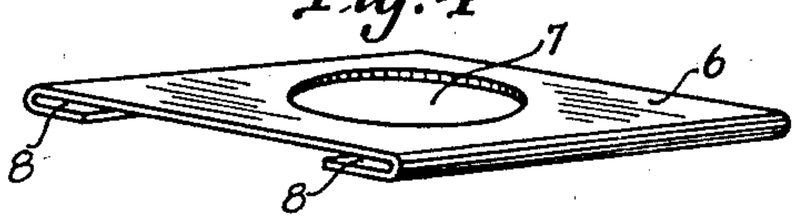


Fig.5

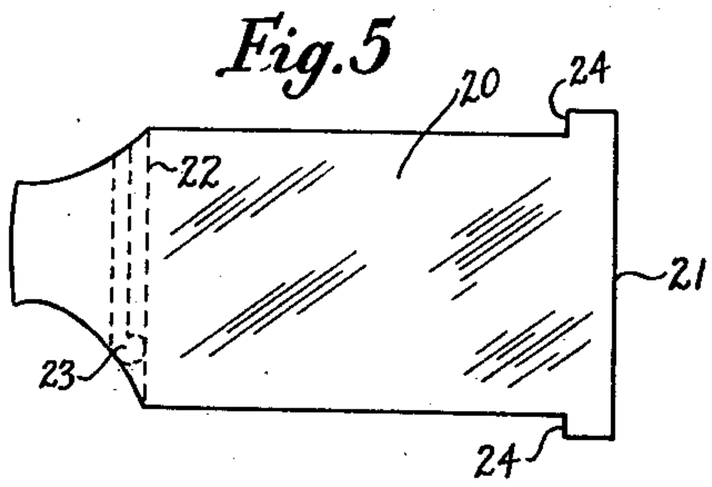


Fig.6

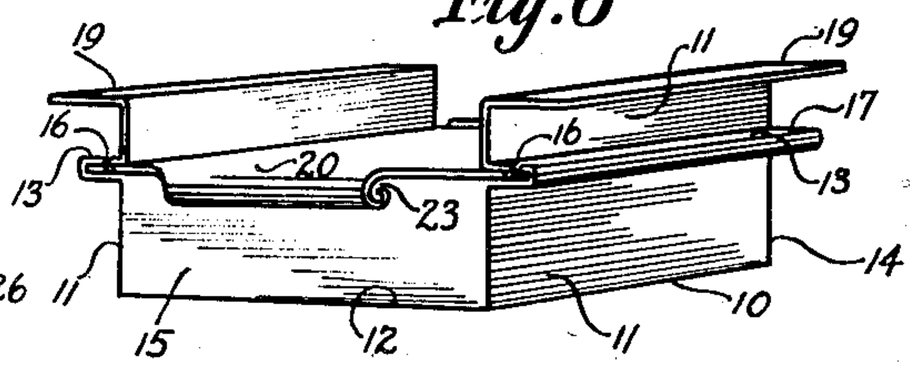
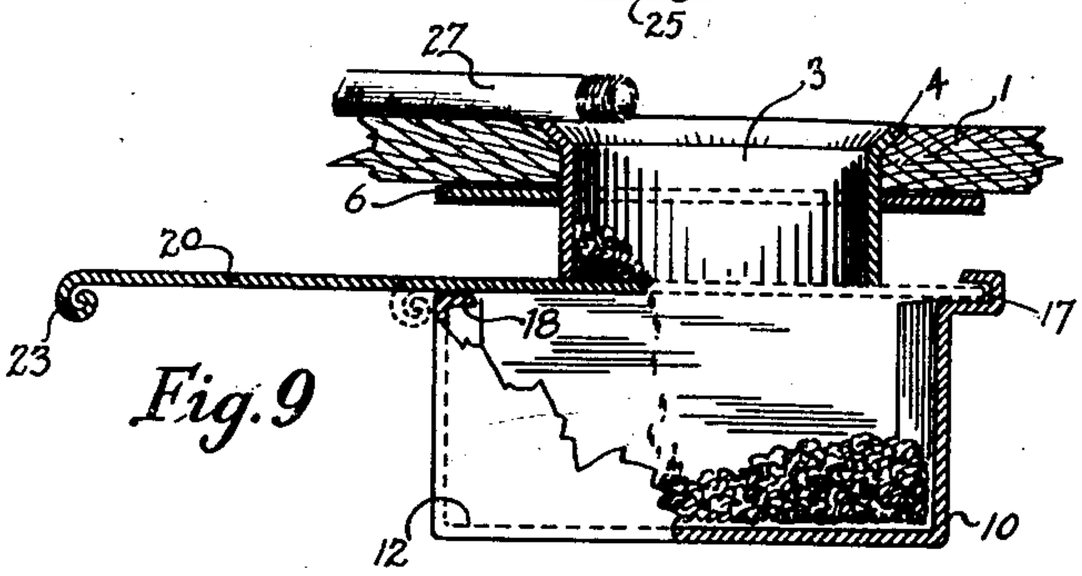


Fig.7

Fig.8

Fig.9



William Appel

INVENTOR.

Patented Feb. 14, 1933 1,897,717

UNITED STATES PATENT OFFICE

WILLIAM APPEL, OF LITTLE ROCK, ARKANSAS

TABLE ATTACHMENT

Application filed August 10, 1931. Serial No. 556,233.

This invention relates to an attachment in combination with a table for a receptacle and container of waste and litter produced by the smoking of tobacco.

A more specific object of the invention is to provide for the convenient collecting and easy disposal of such waste in combination with such tables as are commonly used for the playing of cards and such like games.

Still another object is to provide such means, and to make them particularly applicable to such tables, as are made to have the legs to fold under against the top, for the purposes of easy moving or storing.

Such tables are usually made very light in construction, they often are elaborately decorated trays and containers are used on them, they must be light, capable of being embodied with a variety of designs, and should be easily and quickly attachable or removable and must under all conditions and regardless of any possible position which such a table may be set in, be proof against themselves, or, any of the contents falling out, or obnoxious fumes escaping.

Other objects of the invention will appear as the following description of a preferred and practical embodiment thereof proceeds.

In the drawing which accompanies and forms a part of the specification and throughout the several figures of same, the same character of reference has been employed to designate identical parts.

Figure 1 is a perspective view of the top of a table, its legs folded and out of sight, the part of the invention that is visible on the table top, suggestively shown as embodied with a decorative design;

Figure 2 is an exploded sectional view showing at its top that part of the invention that fits into the top of a table. In the intermediate part of the figure is shown a holding plate which engages with and holds in place, the removable container. This removable container is shown in the bottom portion of the figure;

Figure 3 shows a sectional view of entire assembled and attached device;

Figure 4 is a perspective view of the holding plate;

Figure 5 is a plan view of the sliding cover of the removable container;

Figure 6 is a view in perspective of the removable container;

Figure 7 shows a manner of removably attaching the holding plate to underside of table top;

Figure 8 a view of underside of corner of the table, showing relative position of invention and folded legs;

Figure 9 is a longitudinal sectional view of attached device, showing manner of operating same.

Referring now in detail to the several figures, the numeral 1 represents a table that has let through its top, in two diagonally opposed corners an aperture 2. Into the aperture 2 and lining the inner surface of it, is fitted a connecting band 3. The connecting band 3 has an outwardly extended flange 4. This flange 4 prevents the passing through aperture 2 of the connecting band 3.

In dimensions and shape connecting band 3 conforms to the aperture 2 below the under edge of which it extends a distance equal to the distance between the top of a sliding cover carried in the sides of a removable container as will appear hereinafter. The end of connecting band 3 extending below the under edge of aperture 2 carries an external thread the purpose of which will be shown shortly.

In Figures 2 and 3 is shown in sectional view and in Figure 4 in perspective, a holding plate 6. Out of its central part is cut a space 7 similar in size and shape to the aperture 2. The sides of the holding plate 6 are turned downward and under to form the slides 8—8, which are closed in the back end. The holding plate 6 is slipped over end of connecting band 3 and forced in to contact with underside of top of table 1. It may be fastened in a permanent manner by nails or other means as may be desired, or, in a removable manner by a collar 9 with an internal thread fitting on the threaded end of band 3 forcing the holding plate 6 against underside of top of table 1, as shown in Figure 7.

The removable container 10 is a rectangu-

lar box its sides 11—11 set up perpendicular to its bottom 12, the sides 11—11 at a desired point up from the bottom 12 have formed in them the slides 13—13. At the end 14 of removable container 10 the slides 13—13 have the ends closed. At the end 15 of removable container 10 a little distance back from their ends and in from their outer edges the upper surface of the slides 13—13 is forced into the lower surface by punch points. This forms the stops 16—16. The end 14 is set up. At the height equal to the slides 13—13 it is turned outward the width of slides 13—13 then brought up a short distance. This forms a rest and stop 17 for the end of a sliding cover 20 as will appear shortly. The end 15 is set up to the height equal with end 14 and then turned inwardly a short distance forming the flange 18. The sides 11—11 are again set up above the slides 13—13 in line with their portion below those slides forming the extensions 11′—11′. At a point up from the slides 13—13 equal to the distance the connecting band 3 extends below the aperture 2 the extended sides 11′—11′ are turned outward forming a flange 19—19. The flanges 19—19 are made to fit into and slide in and out of the slides 8—8 on holding plate 6. The space enclosed by bottom 12 the sides 11—11 and the ends 14 and 15 below the slides 13—13 of the removable container 10 is closed by a sliding cover 20 a plan view of which is shown in Figure 6. At the end 21 the sliding cover 20 is equal in width to the width between the inner sides of the slides 13—13 at the end 14. From the end 21 forward to line 22 is the distance from end 14 to 15 of removable container 10, plus a small margin of safety and a small tongue shaped extension which is rolled under and forms the roll 23 as indicated by dotted lines. A short distance forward of the end 21 the sides of the sliding cover 20 are reduced to equal the width between the punch point stops 16—16 on the slides 13—13. The end 21 of cover 20 is now put in engagement with the slides 13—13 by forcing the extended sides 11′—11′ apart, the remainder of the sliding cover will lay between the points 16—16. The flanges 19—19 are brought into engagement with slides 8—8. This assembles the entire device and attachment to table. The slides 8—8 on holding plates 6 and 13—13 on removable container 10 are adjusted so that the natural resilience of the metal from which they are made will hold the sliding cover 20 in slides 13—13 and the flanges 19—19 of removable container 10, in the slides 8—8 on holding plate 6, both of which can move only in one and the same lateral direction, securely in position no matter at what angle or position the table may be placed. A little manual force would suffice to move them. The removable container 10 can be pulled out of engagement with slides 8—8 in holding plate 6. The sliding cover 20 can be moved in same direction only up to a point where the shoulders 24—24 come against the punch stop points 16—16. The sliding cover 20 can not be pushed out of closed ends of slides 13—13 at end 14 and removable container 10 can not be pushed past the closed ends of slides 8—8 thus preventing any interference of any part of the invention with the folding up or opening of the legs of the table 1.

In Figure 3, a sectional view cut through on line 5—5 of Figure 1 all contacts are shown in engagement with each other.

The drawing of Figure 8 shows the underside of a corner of the table, the dotted circle is under edge of aperture 2 in table 1 and aperture 7 in holding plate 6. The numeral 25 shows the top of a folding leg and its attachment to table 1 between table rail and removable container 10. The other leg has its lower end, when folded in place as shown by 26.

Figure 9 illustrates, in a longitudinal sectional view, the operative features of the invention: Any waste falling off the end of an article, such as a cigarette 27 falls into the receptacle or tray formed by the sides of the connecting band 3 and the top surface of sliding cover 20, which forms a removable bottom to connecting band 3. When this sliding cover 20 is pulled outward, as shown by the solid lines, the front wall of connecting band 3 acts as a retaining force against the movement of waste collected. The movement of sliding cover 20 opens the bottom of connecting band 3 and uncovers the top of space in lower part of container 10. When pulled latterly to its extreme range the shoulders 24—24 jam against the punch stop points 16—16. The entire under opening in connecting band is now uncovered, the space in removable container 10 is also open and the contents of receptacle formed by connecting band 3 is automatically discharged into space in container 10. The pushing back of sliding cover 20 as indicated by dotted lines, closes bottom of connecting band 3 and top of removable container 10 completely enclosing all waste in bottom portion of this container.

While I have in the above description disclosed what I believe to be a preferred and practical form of the invention, it is to be understood that the invention resides in the broad principles as claimed, and that variation in the details of construction and arrangement of parts, can be made from time to time as experience may prove desirable, or the exigencies of use may require.

I claim:

1. The combination in a table with an aperture in each of two diagonally opposed corners of its top, a connecting band, the

said connecting band adapted to line the inner surfaces and extend below the lower edge of the said aperture and having at its top an outwardly extending flange and on its lower part an external thread, a holding plate with a downwardly extending slide in the edge of its sides its central part adapted to fit over the extending lower end of the said connecting band, means for holding the said connecting band and the said holding plate in fixed or removable relations with each other and to the upper and under surfaces of the top of the said table, and in removable relation with the said holding plate and underside of the said table, a container, the said container held in removable attachment to the said holding plate and underside of the said table.

2. The combination in a table with apertures in two diagonally opposed corners of the top of the said table, a connecting band, an outwardly extending flange on the top and an external thread on the lower end of the said connecting band, a holding plate, an aperture in the central part and downwardly extending slides on the side edges of the said holding plate, the said connecting band lining the inner surface and extending below the under edge of the aperture in the top of the said table and the said holding plate, an internally threaded collar, meshing with the external thread on the lower end of the said connecting band, the said collar in contact against the underside of the said holding plate and holding the outwardly extending flange on the top of the said connecting band against the top surface of the top of the said table and the said holding plate against the underside of the top of the said table, and means cooperating with the said connecting band and the said holding plate for forming a receptacle in the top of the said table and holding in removable relation, a container, against the under surface thereof.

3. The combination in a table with apertures through its top in two diagonally opposed corners, a connecting band, a holding plate, means for holding the said connecting band and holding plate in fixed or removable relation to each other and to the top of the said table, a container, the said container having side and end walls, the said side walls carrying in line with the top of the said end walls, outwardly extending slides, extensions above the said slides, the said extensions having outwardly extending flanges at their top the said flanges adapted to fit into and move in a lateral direction in the downwardly extending slides of the said holding plate, removably attaching and holding the said container to the underside of the top of the said table.

4. The combination in a table with apertures in two diagonally opposed corners of its top, a connecting band, a holding plate, means for holding the connecting band and holding plate in fixed or removable relation to each other and to the top of the table, a container, means for removably attaching and holding the container to the underside of the table, outwardly extending slides in the sides of the container, the said slides carrying in bridged relation, a cover, the said cover adapted to move within the said slides in a lateral direction and means to confine the said lateral movement of the said cover to the inner limits of the said slides.

5. The combination in a table with apertures in two diagonally opposed corners of its top, a connecting band, a holding plate, means for holding the connecting band and holding plate in fixed or removable relation to each other and the top of the table, a container removably attached to the underside of the table, outwardly extending slides in the sides of the container, a non-removable sliding cover carried in bridged relations in the slides, the top surface of the said sliding cover contacting with the lower edges of the extended end of the said connecting band, closing the said end and in conjunction with the inner sides and the open top of the said connecting band, forming a receptacle in two corners of the top of the said table.

6. The combination in a table with apertures in two of its diagonally opposed corners, a connecting band, a holding plate, means for holding the connecting band and holding plate in fixed or removable relation to each other and the top of the table, a container removably attached to the underside of the table, outwardly extending slides in the sides of the container, a non-removable sliding cover carried in bridged relation in the slides, the under surface of the said cover in contact with the inner surfaces of the said slides in the sides and with the top edges of the ends of the said container, forming the top of, and completely closing the space within the said sides and ends of the lower part of the said container.

WILLIAM APPEL.