Dec. 31, 1935. O. WINTER 2,025,926

TABLE PAD

Original Filed Feb. 10, 1929

Fig. 1.

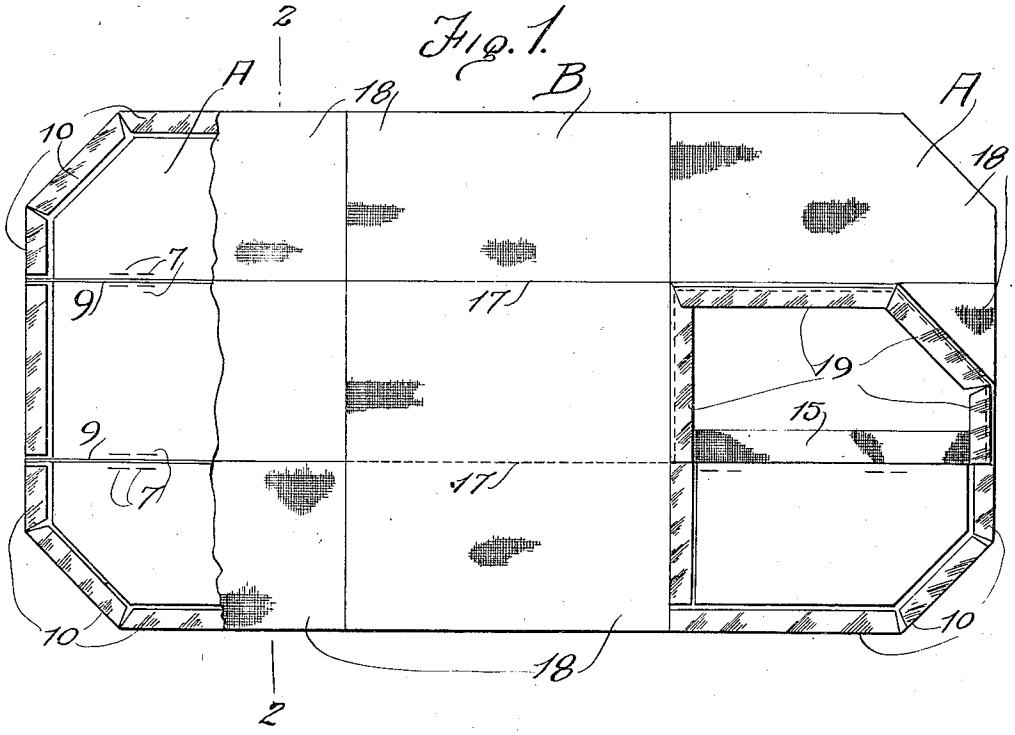
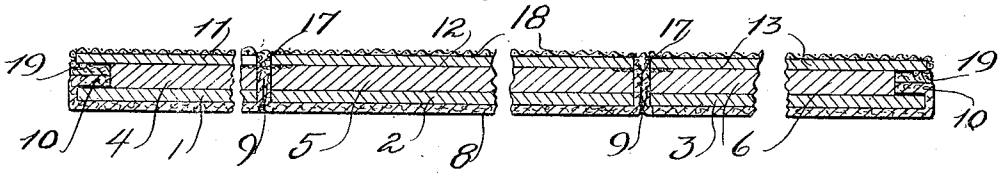


Fig 2.



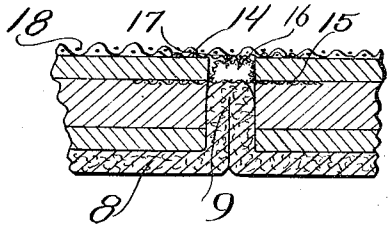
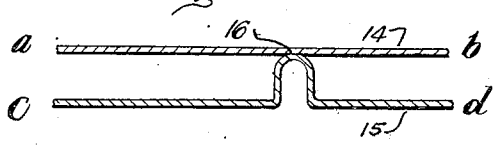


Fig 3.

Fig 4.



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TABLE PAD

Oscar Winter, Philadelphia, Pa.

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Renewed February 24, 1932

10 Claims. (Cl. 45—68.4)

Table mats and pads made by methods heretofore known, especially such pads as are foldable, have had certain imperfections, such as uneven surfaces originally, or have developed folds, wrinkles, concavities and other deformities inside the exterior edges from a short period of use.

In addition to presenting an unsightly appearance, such uneven surfaces, folds, wrinkles and deformities constitute obstructions to table articles movable along the surface of the pad.

To the end of obviating such and other imperfections, I have devised a way of manufacturing pads and mats, foldable or otherwise, which produces a very durable pad or mat wherein the surfaces are level and smooth originally and which maintain their original shape and form, without developing folds, wrinkles or concavities in the surfaces during the entire period of use.

Generally, my invention consists in certain novelties of construction and in the combinations of parts, and, specifically, in a pad substantially as herein shown, described and claimed.

The accompanying drawing illustrates an example of the embodiment of the invention, the parts being constructed and combined according to the best mode of procedure I have so far devised for the purpose.

Figure 1 is a top plan plan view of three pads placed edge to edge upon the top surface of a table, the exterior edges of the assembled pads being flush with the exterior edges of the table; the pad at the left being broken away to disclose the top surface of the bottom layer; and the pad at the right having the top layer of one section turned up to disclose the under surface thereof.

Figure 2 is an enlarged vertical cross section in elevation of Figure 1 taken on line 2—2, part of each of the three sections of the pad being removed.

Figure 3 is an enlarged cross section in elevation, showing the construction of the hinges uniting two sections.

Figure 4 shows in an enlarged sectional view the united strips of flexible material forming the hinge proper.

As shown by Figure 1, each end pad A is of a similar shape and construction. The central pad B is of the same construction as the end pad, but each folding section is rectangular in shape. The central pad also has one section adapted to fold under the middle section, see full line, and the other section adapted to fold over upon the top surface of the middle section, see dotted line.

Each end pad A is constructed as follows:

Three pieces of cardboard 1, 2, 3 are cut to the required shapes; three other sheets of suitable material, such as cardboard 4, 5, 6, are cut to correspond in shape, but each of less area than sheets 1, 2, 3, and the latter sheets 4, 5, 6 are fastened to the top surfaces of the lower sheets 1, 2, 3 by staples 7, thus forming three panels. Sheets 4, 5, 6 are each of less length than sheets 1, 2, 3, also sheets 4 and 6 are of less width than sheets 1 and 3, whereby the outer edges of sheets 1, 2 and 3 are exposed, that is, the sum of the areas of sheets 1, 2 and 3 is greater than the sum of the areas of sheets 4, 5 and 6. Next a piece of fabric 8, such as flannel or other cloth of the desired color, is cut to the required shape. The three panels of united cardboard are then placed upon the fabric. The body of the fabric is folded upwardly between adjacent edges of the panels to U shapes 9 and glued to the edges of the panels, as shown. The free edges 10 of the fabric or flannel 8 are then drawn over the exterior edges of the panels and glued to the top exposed surfaces of cardboard sheets 1, 2 and 3. If desired, the edges of the flannel 8 may first be glued to the edges of the cardboard sheets 1, 2 and 3 and the U shapes 9 formed afterwards, as described.

The foregoing construction constitutes one or the lower layer of the pad, and it should be noted that the turned-over edges of the fabric 8 are in a plane below the top surfaces of the three panels or sheets 4, 5, 6 (see Figure 2). The other or top layer of the pad is fastened as follows:

Three sheets of cardboard 11, 12 and 13 are cut to substantially the same shapes as sheets 1, 2 and 3. At their adjacent parallel longitudinal edges two hinges 17 are provided, each hinge comprising two strips of flexible material, 14, 15 united inside their longitudinal edges by a row of thread stitches 16, forming four leaves *a, b, c, d*, substantially radiating from a common longitudinal axis. The leaves *a* and *b*, in the same plane, are glued to the top edge surfaces of adjacent top sheets (as 12 and 13), and the leaves *c* and *d* are bent downwardly, their free edges turned outwardly and secured by glue to the under edge surfaces of the same sheets (as 12 and 13). To complete the upper layer and form a cover, a sheet of oilcloth 18 or other fabric impervious to water and moisture is cut to the required shape and a strip of fabric 19 sewed to the outer edge so that when the edge is turned under the stitches will not be visible. This sheet of oilcloth 18 is then applied to the hinged cardboard sheets 11, 12, 13 and the edges thereof with the fabric 19 turned under the edges of the card-

board sheets all the way around and glued in position. The glue is applied to the strip 19 and not to the oilcloth, the edge of the latter showing at the edge of the upper layer.

The upper layer is then placed upon the lower layer and the strip of fabric 19 glued to the turned-over top surface of the edges 10 of the fabric or cover 9 of the lower layer of the pad.

It will be observed that the top surface of strip 19 when glued to the edge 10 of the fabric or cover 9 lies in the same plane as the top surface of the sheets 4, 5 and 6 of the lower layer of the pad. This feature of construction is of importance, as it insures the pad being of the same thickness throughout so that no depressions can be formed in the body of the pad.

From the foregoing description taken with the drawing it will be clear that I have produced a very superior pad by a simple method of procedure. No wrinkles or folds can form in the fabrics or covers 8 and 18, as they are drawn taut about the rigid panels or cardboard sheets of each layer; hinges in each layer are provided at each folding line of the pad; no binding is required to hold the sections together; and the thickness of the pad is the same throughout its entire area.

While I have shown and described only one example of the embodiment of the invention, it should be understood that it may be embodied in other examples. The shapes of the pad may be different according to requirements and adapting them to tables of different shapes, and the number of sections and hinges varied and even the hinges omitted, as occasion may demand, all without constituting substantial departures.

What I claim is:

1. A pad comprised of two layers; one layer comprising a cardboard, a sheet of flexible material for a covering upon one surface of the cardboard with its edges lapped over the edge of the cardboard and secured to the surface thereof, a filling sheet of less area than the cardboard secured to the cardboard inside the turned-over edges of the covering; the other layer comprising a sheet of cardboard, a covering having its edge turned over the edge of the cardboard and secured to the surface thereof; and the two said layers placed together and united at their inner surfaces; the said filling sheet being of the thickness of the two turned-over edges of the two coverings of the layers and disposed in the same plane.

2. The subject-matter of claim 1 wherein the pad is in a plurality of sections two sections being united by a hinge formed of two strips of flexible material sewed together at their longitudinal centers and the opposite edges lapped over opposite and adjacent separated edges of the layers of cardboard and glued in position.

3. A pad comprised of two layers; one layer comprising a cardboard, a sheet of flexible material for a covering upon one surface of the cardboard with its edges lapped over the edge of the cardboard and secured to the surface thereof, a filling sheet of less area than the cardboard secured to the cardboard inside the turned-over edges of the covering; the other layer comprising a sheet of cardboard, a covering having a strip of suitable material secured to its outer edge, said covering being applied to one surface of the cardboard, said material at the edge of the covering turned over the edge of the cardboard and secured to the surface thereof; and the two said layers placed together and united at their inner surfaces; the said filling sheet being of the thickness of the two turned-over edges of the two coverings of the layers.

4. A pad comprising two outer coverings of suitable material, two outer layers of suitable material spaced apart between the coverings, the edges of the coverings being lapped over the edges of the spaced apart layers and secured in position, and filling material in the form of a layer located between the spaced apart layers and its outer edges disposed inwardly of the turned-over edges of the coverings, said pad being of substantially the same thickness throughout.

5. A pad or mat comprised of outer coverings and two outer layers of material between said coverings, turned-over edges of the coverings at the edge of the pad or mat located between the two said layers, and filling material, as a sheet of cardboard, its superficial area being less than the superficial area of the said two outer layers, and its circumferential edge located adjacent said turned-over edges and in substantially the same plane to increase the thickness of the pad or mat at its central portion so the mat or pad will be substantially of the same thickness throughout.

6. The combination in a foldable pad and with the adjacent edges of two of its interior constituent parts, of a hinge comprising four leaves of flexible material, two of said leaves being secured to the adjacent opposite edges of said parts and substantially in the same plane, and the other two leaves bent away from said plane and secured to said parts outside said plane, one of said latter leaves being embedded in the body portion of one of said parts.

7. The combination in a foldable pad and with the adjacent edges of two of its interior constituent parts, of a hinge comprising four longitudinally connected leaves of flexible material, two of said leaves being secured to the adjacent edges of said parts in substantially the same plane, and the other two leaves bent away from said plane and the free edges secured between layers of material forming each of said parts.

8. The combination in a foldable pad having as constituent parts thereof two separate sheets of material, as cardboard, disposed in the same plane, and with their adjacent edges, of a hinge comprising four leaves united along a common longitudinal axis, two of said leaves being secured to the top surfaces of the said two sheets in the same plane, and the other two leaves bent downwardly between the vertical edges of the two said sheets and their free edges turned outwardly over upon the surfaces of the said sheets and secured in position and also embedded in the body portions of said constituent parts.

9. The combination in a foldable pad and with the adjacent edges of two of its interior constituent parts, of a covering, and a hinge comprising four united leaves of flexible material two of said leaves being secured to the outer adjacent edge surfaces of said parts and substantially in the same plane beneath the covering so the bending line will lie substantially in the plane of the two leaves and directly beneath the covering, and the other two leaves bent away from the plane of the first mentioned two leaves and their free edges embedded in the body portions of the two parts.

10. The combination in a foldable pad and with the adjacent edges of two of its interior constituent parts each of said constituent parts having a sheet of material, as cardboard, disposed in the same plane at the surfaces of said interior parts, of a hinge comprising four leaves of flexible ma-

terial united along a common longitudinal axis, two of said leaves being secured to the exposed surfaces of the said two sheets in the same plane so the bending line of the hinge will lie substantially in said plane, and the other two leaves bent downwardly between the vertical edges of said two sheets and their free ends turned outwardly and secured within the body portions of said interior parts; and a covering at the opposite surfaces of the said two constituent parts, said covering having a U-shaped fold located between the edges of the constituent parts and secured in position.

OSCAR WINTER.