No. 831,938. PATENTED SEPT. 25, 1906.

A. DE KUBBER.

TABLE.

APPLICATION FILED JAN. 12, 1905.

2 SHEETS—SHEET 1.

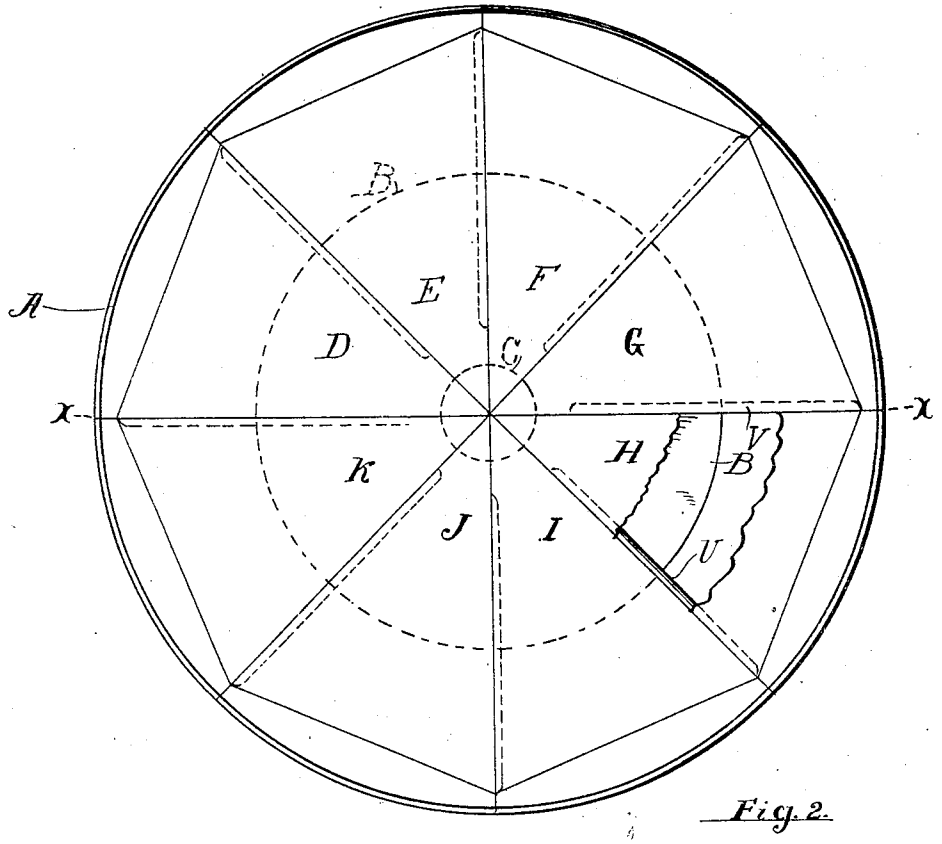


Fig. 2.

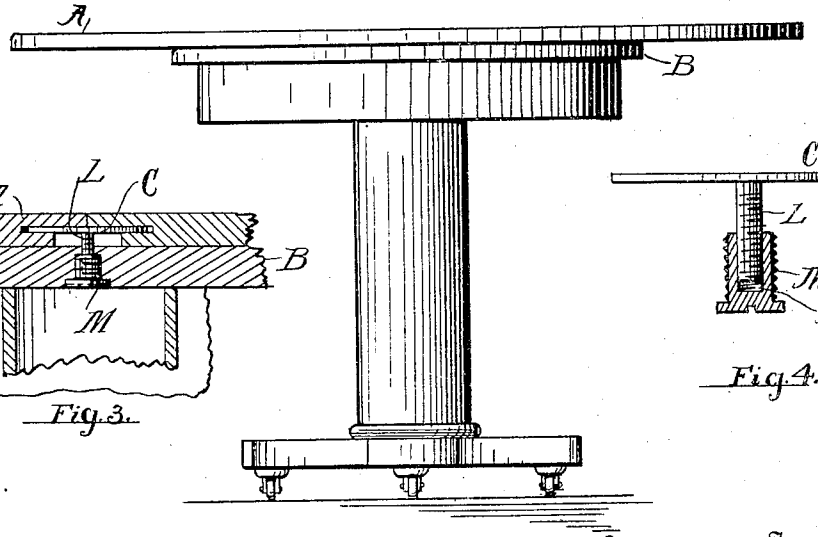


Fig. 3.

Fig. 4.

Fig. 1.

Witnesses

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2 SHEETS—SHEET 2.

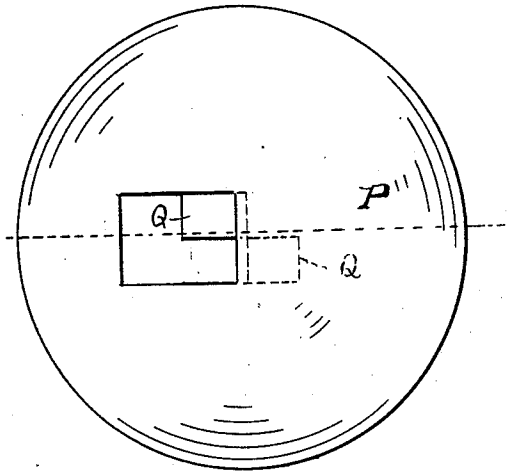


Fig. 5.

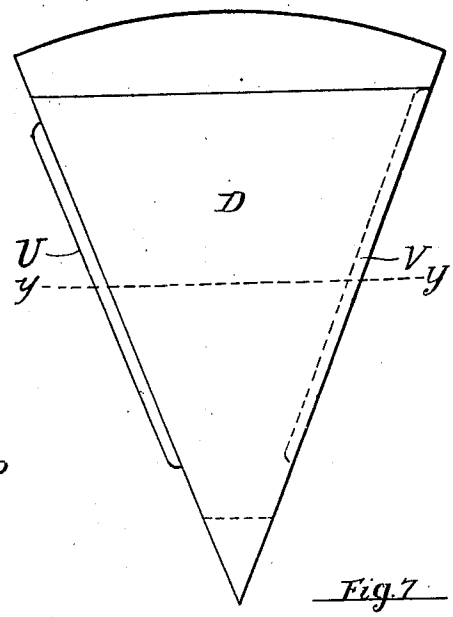


Fig. 7

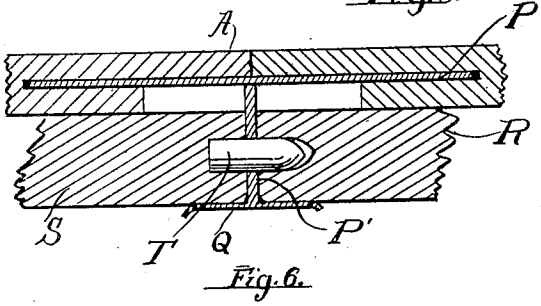


Fig. 6.

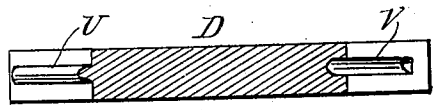


Fig. 8.

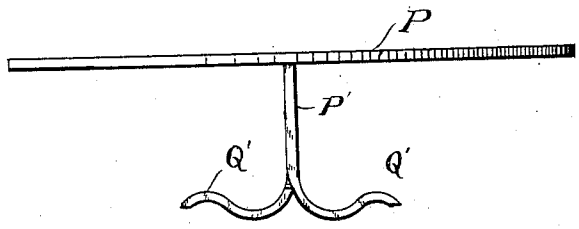


Fig. 9.

Witnesses

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UNITED STATES PATENT OFFICE.

ABRAHAM DE KUBBER, OF GRAND RAPIDS, MICHIGAN.

TABLE.

No. 831,938. Specification of Letters Patent. Patented Sept. 25, 1906.

Application filed January 12, 1905. Serial No. 240,795.

To all whom it may concern:

Be it known that I, ABRAHAM DE KUBBER, a citizen of the United States, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented new and useful Improvements in Tables, of which the following is a specification.

This invention relates to certain new and useful improvements in tables, and more particularly in the combination of an ordinary table with a removable top which may be readily applied to and readily removed from the table itself.

The objects of the invention are, first, to furnish a removable top for a table, whereby the capacity of the table will be greatly increased; second, to furnish suitable means for attaching and detaching said removable table-top from the table; third, other objects hereinafter pointed out and claimed. These objects I accomplish by means of the mechanism illustrated in the accompanying drawings, in which—

Figure 1 shows a side elevation of a table with my removable top applied thereto, said top extending in all directions beyond the stationary top of the table. Fig. 2 shows a plan view of a table illustrated in Fig. 1, the circular dotted lines showing the position of the table and of the fastener which engages with the sector-shaped sections for the purpose of retaining the same in position. Fig. 3 is a sectional view on line *x x* of Fig. 2, showing my preferred form of attaching the removable table-top to a non-extension table. Fig. 4 is a detail view, on an enlarged scale, of the fastening which is used for attaching the table-top to a non-extension table. Fig. 5 is a plan view, on an enlarged scale, of the fastening when used in connection with an extension-table. Fig. 6 is a sectional view through the center of an extension-table, taken on a line corresponding with the straight dotted line of Fig. 5. Fig. 7 is a detail view of one of the sector-shaped sections of the removable table-top. Fig. 8 is a sectional view on line *y y* of Fig. 7. Fig. 9 is a detail view of a modified form of fastening used for the purpose of attaching the removable table-top to an extension-table.

Similar letters refer to similar parts throughout the several views.

A represents the removable table-top composed, in the example of my invention shown in the drawings, of eight sector-shaped sections, (shown by D, E, F, G, H, I, J, and K,) the apexes of the sections meeting centrally of the stationary table-top.

B is the permanent top of the non-extension table of any ordinary construction. In the example of my invention shown in the drawings I have illustrated a round table; but it will be evident that my invention can be applied to a table of any desired form.

C is a disk-shaped fastener used for attaching the removable table-top to the permanent table-top, said fastener preferably engaging with grooves in the apexes of the sections of the removable top, as illustrated in the drawings. This disk-shaped fastener C is provided with a threaded shank or stud L, which engages with an internal thread on the nut M. The nut M is used in connection with a permanent table-top for a non-extension table and is screwed into the under side of the center of the table-top, but not so as to project entirely through the same. This nut M is provided with external threads N, as well as internal threads already described, and may be constructed in any suitable form. The position of the nut M and its engagement with the sections of the removable table-top are fully illustrated in Fig. 3.

P is a modified form of the fastener, the same being modified to adapt it for attaching the removable top to an extension-table. The disk P is provided with a shank P′ and a flange Q, as shown in Fig. 6. Instead of using the flange Q, as shown in Fig. 6, it may be made so as to constitute springs, as shown by Q′ Q′ in Fig. 9. The object of using the springs in connection with the shank P′ is to adapt the fastener to table-tops of different thicknesses.

R and S show the two parts of an extension-table, the same being attached together by ordinary dowel-pins, as shown by T. The dowel-pins, however, form no part of the invention. In the example shown in Fig. 6 the dowel-pin T is so placed as to pass through an opening in the shank P′, although this arrangement is not necessary.

In the example of my invention shown in the drawings I have shown the sector-shaped sections provided with a groove on one side, as illustrated by V in Fig. 7, and a shorter tongue on the other side, as illustrated by U. It will be understood, however, that any other suitable means may be used for securing the edges of the sections together, and in case of small tables edge fastenings may be dispensed with.

In using my invention as applied to a stationary table-top, as shown in Fig. 3, the nut M is inserted from below into the permanent table-top B. The fastener C is then engaged with the nut M, and the flange portion is in position to engage with grooves in the apexes of the sector-shaped sections of the top. These sections are shoved into place, engaging the said fastener C, and the apexes of the sections meet at a common center, so that the fastener C retains firmly and securely in position all the sections of the removable top. In order to remove the top A, the sections are drawn out one by one, releasing the same from the fastener C, when the fastener C may be removed from the table, leaving no sign of its existence excepting a very small hole in the table-top. When my removable table-top is applied to an extension-table, the fastener P is placed in position centrally between the two parts R and S of the extension-table, and the disk P projects above the stationary part of the table-top a sufficient distance to engage with the grooves in the apexes of the sector-like sections of the removable table-top. In order to remove the removable top, the sections are drawn out, so as to disengage from the disk-shaped fastener P. The two sections may then be slightly opened and the fastener P removed. The size and the number of the removable sections will depend upon the size of the table to which the same are applied.

I have illustrated means for detachably connecting a removable top to a permanent top; but it is apparent that my invention may be employed without such means. When the permanent top is of a considerable size, the removable top will rest upon it, and being supported by the entire surface of the permanent top at a considerable distance from the center the removable top will in many cases be supported with sufficient firmness even if it is not centrally attached to the permanent top, while at the same time the construction shown will hold the sections of the removable top in perfect relation to each other and make a top satisfactory when assembled and in use, but easily collapsible for removal. It will be noted that the same removable top can be applied without change either to an extension-table or a non-extension table, to a round table, or to a table of any other form. Ordinarily these sections which form the removable table-top are constructed of thin light lumber, so as to be readily and easily handled.

Having thus described my invention, what I claim to have invented, and desire to secure by Letters Patent, is—

1. In combination with the support and permanent top of a table, a removable top therefor, composed of sector-shaped sections, and means for detachably securing said sections at their apexes together and to the permanent top, such means engaging with such apexes below the surface thereof.

2. In combination with the support and permanent top of a table, a removable top therefor, composed of a plurality of sector-shaped sections, a slot in the apex of each section thereof, a disk engaging such slot in each section, and means for detachable engagement between such disk and such permanent top.

3. In combination with the support and permanent top of a table, a removable top therefor, composed of a plurality of sector-shaped sections, a metal disk, means for detachably engaging the metal disk with the apexes of the sections below the surface thereof, and means for detachably engaging such metal disk with such permanent top.

4. In combination with the support and permanent top of a table, a removable top therefor, composed of sections, a metal disk, means for detachably engaging the metal disk with such sections below their surface, means for detachably engaging such metal disk with the permanent top, and means for adjusting the metal disk with reference to the permanent top, whereby it will closely bind the removable top to the permanent top.

5. In combination with the support and two parts of the permanent top of an extension-table, a dowel-pin for maintaining the two parts in alinement, a metal disk for engagement with a removable top, means carried by such disk for vertical engagement with the permanent top, and for lateral engagement with such dowel-pin, and a removable top composed of a plurality of sections engaging with such metal disk.

6. In combination with the support and permanent top of a table, a removable top therefor, composed of a plurality of sections, means for engaging such sections at their common meeting-point and below their surface with the central portion of the permanent top, and means for detachably engaging the side of one section to the side of the adjacent section, such means being located between the upper and lower surfaces of the sections, whereby they are concealed from view.

7. In combination with a permanent table-top, a removable top composed of a plurality of sector-shaped sections having their apexes meeting at a common center, such apexes being grooved, and a disk-like fastener adapted to engage with the grooves in the apexes of the sections and to be entirely concealed when the removable table-top is applied, and means for holding such disk and such apexes in detachable engagement.

8. In combination with the support and two parts of the permanent top of an extension-table separating along a transverse line, a removable top composed of a plurality of

sector-shaped sections, means for detachably engaging such sections to each other and detachable means engaging the permanent top at its line of separation, and engaging, also, the removable top for holding the latter upon the former.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

ABRAHAM DE KUBBER.

Witnesses:
EDWARD TAGGART,
MARY S. TOOKER.