W. A. SABINS AND D. J. DONAHUE.

LEVELING DEVICE FOR BILLIARD TABLES.

APPLICATION FILED NOV. 24, 1919.

1,355,429.

Patented Oct. 12, 1920.

2 SHEETS—SHEET 1.

Fig. 1.

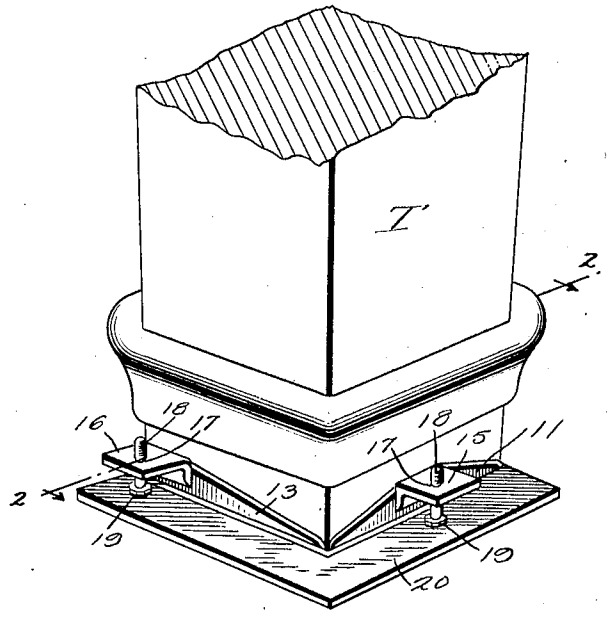
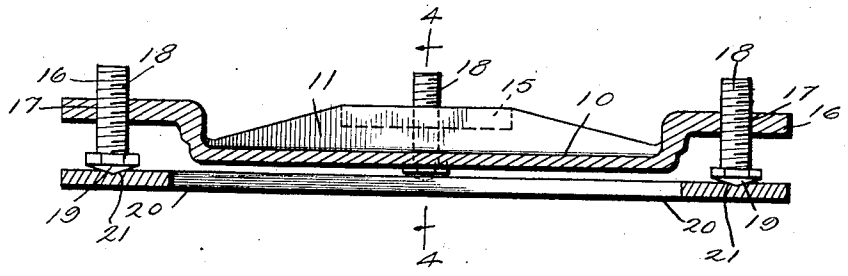


Fig. 2.



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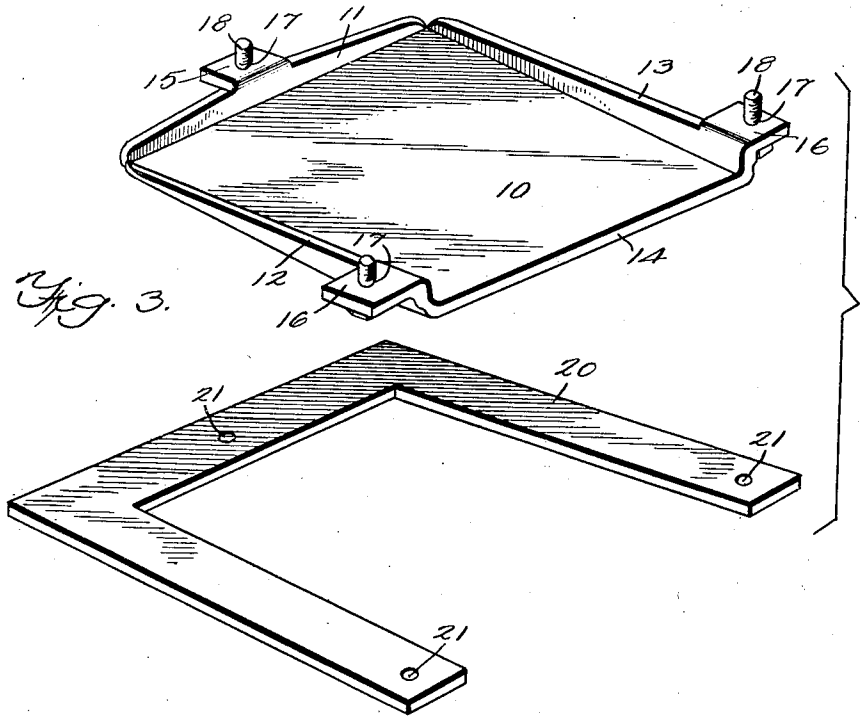
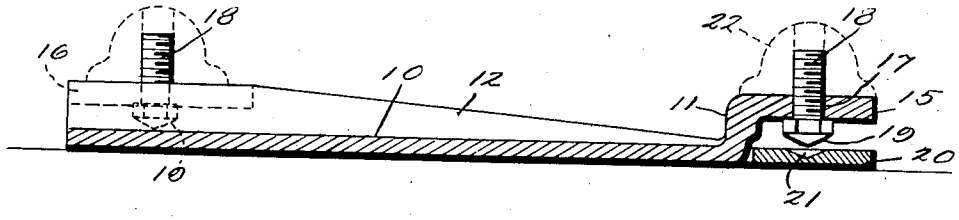


Fig. 3.

Fig. 4.



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WILLIAM A. SABINS AND DANIEL J. DONAHUE, OF JOPLIN, MISSOURI.

LEVELING DEVICE FOR BILLIARD-TABLES.

1,355,429. Specification of Letters Patent. Patented Oct. 12, 1920.

Application filed November 24, 1919. Serial No. 340,172.

To all whom it may concern:

Be it known that we, WILLIAM A. SABINS and DANIEL J. DONAHUE, citizens of the United States, residing at Joplin, in the county of Jasper and State of Missouri, have invented certain new and useful Improvements in Leveling Devices for Billiard-Tables, of which the following is a specification.

This invention relates to leveling devices for billiard tables and the like.

We are aware of several patents granted for devices of this character wherein a supporting plate is provided adapted to be adjusted as to height by means of a plurality of regulating screws. These devices however, are open to objections chief among which are that they are cumbersome, complicated, and difficult to attach and adjust by an inexperienced person, and further that in each instance the set screws are operated from the top wherein the head of the set screw protrudes to a disadvantage and the whole weight of the table is on the point of the screw and the jar of the building or floor causes a loosening of the screw and consequent settling at that point.

A further object of the invention is to provide a device of the above mentioned character wherein the adjusting elements are readily accessible.

A still further object of the invention is to provide such a device which will be simple in construction, durable and cheap to manufacture.

A further object of the invention is to provide a device that can be placed under the table leg by the most inexperienced person, in a modicum of time; and adjusted without a possibility of his injuring the table top by having to raise the leg unduly.

Other objects and advantages will be apparent during the course of the following description.

In the accompanying drawings wherein for the purpose of illustration is shown a preferred embodiment of our invention, and wherein like reference characters are employed to designate like parts throughout the same.

Figure 1 is a perspective of a portion of a billiard table leg showing our device applied thereto.

Fig. 2 is a section taken on the line 2—2 of Fig. 1.

Fig. 3 is a perspective view of our device showing the parts separated.

Fig. 4 is a sectional view taken on the line 4—4 of Fig. 2 showing the manner in which the floor plate may be placed in position.

Referring now more particularly to the drawings the numeral 10 indicates a rectangular tray or bearing plate provided with flanges 11, 12 and 13.

The fourth side 14 is open for a purpose hereinafter to appear. The flange 11 or the flange upon the front side of the plate is provided approximately centrally thereof with an outstanding portion 15. The flanges 12 and 13 are provided adjacent the open side 14 of the plate with outstanding portions 16. These portions 15 and 16 are provided with screw threaded apertures 17 adapted to receive screws 18. As more clearly shown in Figs. 2 and 4, the heads of these screws are inverted and are below the plate and are provided at their lower ends with a conical portion 19.

A floor plate 20 is provided substantially U-shaped in form and affording conical depressions 21 adapted to receive the conical heads of the screws 18. This floor plate may or may not be secured to the floor as is desired.

In applying the device to a table it is merely necessary to lift the leg of the billiard table or the like the thickness of the plate 10 and slide the plate under the table leg open end first until the flange 11 engages against the leg of the table when the table leg may be released to place its weight upon the plate, the plate then being in the position shown in Fig. 4. The height of the outstanding portions 15 and 16 from the floor when the bottom of the bearing plate 10 is resting upon the floor is sufficient so that when the screws 18 are fully elevated, as shown in Fig. 4, the plate 20 may be slid thereunder and placed in position. Subsequently the screws may be tightened down to engage in the openings 21 for a purpose of leveling the table.

It will be obvious that in placing our leveling device in position it is unnecessary to raise the leg of the table to such a height

that it distorts the body of the table sufficiently to cause damage thereto and that the plate is readily attached to the table or removed therefrom. In actual use the plate may be covered by any suitable means, or the outstanding portions 15 and 16 may be enlarged, as suggested by the dotted lines at 22 upon Fig. 4, so that the screws 18 when fully elevated do not project above the upper surfaces thereof in which case the cover plate will become unnecessary.

As many changes are possible in the design and shaping of the plates and in the particular arrangement thereof, we do not limit ourselves to the specific structure herein shown, but may make any such changes without departing from the spirit of the invention, or the scope of the subjoined claims.

What we claim is:

1. In a leveling device for game tables, a plate adapted to receive a leg of the table, said plate being supplied upon the front and two sides thereof with upstanding flanges having out turned portions, whereby said plate forms a socket having one open side, screw threaded openings formed in said out turned portions, a U-shaped floor plate provided upon its upper side with depressions corresponding in number and arrangement to the screw threaded openings in said out turned portions and screws extending through said threaded openings and having their heads inverted and engaging in said recesses, the heads of said screws corresponding in contour to said recesses.

2. In a leveling device for game tables, a plate adapted to receive a leg of the table, said plate being supplied upon the front and two sides thereof with upstanding flanges having out turned portions, whereby said plate forms a socket having one open side, the out turned portion of the flange upon the front of said bearing plate being disposed centrally thereof and the out turned portions of said side flanges being disposed adjacent said open side, screw threaded openings formed in said out turned portions, a U-shaped floor plate provided upon its upper side with conical depressions corresponding in number and arrangement to the screw threaded openings in said out turned portions and screws extending through said threaded openings and having their heads inverted and engaging in said recesses, the heads of said screws corresponding in contour to said recesses.

In testimony whereof we affix our signatures in presence of two witnesses.

WILLIAM A SABINS.
DANIEL J. DONAHUE.

Witnesses:
BERTHA HARMS,
W. J. OWEN.