LATCH FOR REVOLVING TABLE TOPS

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Fig. 1.

Fig. 2.

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The present invention relates to tables; and its object is, generally, to provide improved devices for holding the revoluble tops of tables in turned positions; and further, to provide brakes for such top's turning movement operable in connection with such devices.

This and any other and more specific objects hereinafter appearing are attained by, and the invention finds preferable embodiment in, the structure and devices particularly described in the body of this specification and illustrated by the accompanying drawings, in which:

Figure 1 is a top plan view of framework of a rotatable table top and a device for releasably holding the same in a turned position;

Figure 2 is an elevational view of the table top and its pedestal or base, shown partially in vertical section taken on line 2—2 of Figure 1, with said device applied thereto;

Figure 3 is a top plan view of said framework and base with the device applied thereon, showing the same in another position;

Figure 4 is an elevational view thereof, the framework being partially sectioned on line 4—4 of Figure 3;

Figure 5 is an edge view of the same, partially sectioned on line 5—5 of Figure 4;

Figure 6 is a fragmentary top plan view of parts thereof partially sectioned on line 6—6 of Figure 4;

Figure 7 is a like view of the same, but showing the parts in another position; and

Figure 8 is an elevational view thereof partially sectioned on line 8—8 of Figure 7.

In these drawings is shown a table structure having a central base or pedestal 1 and a top 2 turnable horizontally thereon about a vertical pivot pin 3. The upper end portion 4 of said base is circular in a horizontal plane and carries on its peripheral edge spaced keeper elements, metal plates 5 as shown, having sockets 6 which are open in a horizontal and also in a vertical direction—that is, the mouths of these sockets are open at 7 downwardly and at 8 are open outwardly in the radial direction of the circular upper end portion 4 of the base. These plates or keeper elements 5 have slide bearings 9 at the opposite sides of said sockets, which are vertically inclined and lead to the mouths of the sockets.

The table top 2 in the construction shown comprises a framework composed of horizontal strips 10 on the upper side of which is carried the top proper 11 of the table, and on the under side of which is carried the plate 12 having downwardly convex rounded extensions 13 bearing on the top portion 4 of the base 1.

The pivot pin 3 extending through the parts 4 and 12 has at its upper end a head 14 and a washer 15 on which slidably bears the springable bifurcated inner end 16 of a brake element 17 whose angle portion 18 bears on a cam plate 19 to cause said end 16 to press on said washer and urge the table top downwardly on the base in the position of the parts shown in Figures 3 and 4, thus yieldingly holding the table top against turning; but when this brake element is slid radially outwardly its angle portion 18 moves down over the inclined side 20 of plate 19 to release the brake.

A bar 21 is mounted at one end 22 on the top 2 and at its free end has a latch element 23 whose inner end 24 seats in the socket 6 to hold said top against turning movement. This bar is springable in vertical and horizontal directions, thus pressing the latch element's inner end in a vertical direction as it rides on the keeper element's slide bearing 9 when the table top is being rotated, and pressing said end of the latch element in either a vertical or horizontal direction into the socket.

This latch element has an upwardly extending hooked outer end 26 with which the downwardly extending catch 27 of an elongated element 28 is adapted to engage in the position of the parts seen in Figure 4. This element 28 in such engagement is longitudinally moved outwardly by manually turning the lever handle 29 to the position seen in Figures 1 and 2, thus sliding the brake element 17 in its bearings 30 to release the same and moving the latch element's inner end out of the socket 6 and to the position shown.
in Figure 6, whereupon the movement of the lever handle gives a lateral movement to this element 28, causing its catch 27 to move out of engagement with the hooked upper end 26 of the element 28 to release the same, as seen in Figure 7, so that the latch element may engage in the socket 6 when again brought into registration therewith by the turning of the table top.

The elongated element 28 forms a link pivoted at 32 on the brake element 17 and at 33 on the operating lever 29. Although the latch element 23 is withdrawn from the socket 6 and is in the position shown in Figure 7, the brake element 17 is still in operative position to yieldingly hold the table top against turning.

The invention being intended to be pointed out in the claims, is not to be limited to or by details of construction of the particular embodiment thereof illustrated by the drawings or hereinbefore described.

I claim:

1. In a table having a base and a top turnable horizontally thereon, a device for releasably holding the top in a turned position comprising: a keeper element carried by said base having a socket open in a horizontal and in a vertical direction, and a vertically inclined slide bearing leading thereto; a latch element carried by said top spring-pressed vertically on said bearing and vertically and horizontally into the socket.

2. In a table having a base and a top turnable horizontally thereon, a device for releasably holding the top in a turned position comprising: a keeper element carried by said base having a socket open in a horizontal and in a vertical direction; a latch element carried by said top spring-pressed vertically and horizontally into the socket.

3. In a table having a base and a top turnable horizontally thereon, a device for releasably holding the top in a turned position comprising: a keeper element carried by said base having a socket open in a horizontal and in a vertical direction; a latch element carried by said top spring-pressed vertically and horizontally into the socket; a manually operated element carried by said top having a movement in engagement with the latch element for withdrawing the same from the socket and a further movement releasing the same.

4. In a table having a base and a top turnable horizontally thereon, a device for releasably holding the top in a turned position comprising: a keeper element carried by said base having a socket open in a horizontal and in a vertical direction; a latch element carried by said top spring-pressed vertically and horizontally into the socket; an elongated manually operated element carried by said top having a longitudinal movement in engagement with the latch element for withdrawing the same from the socket and a lateral movement releasing the same.

5. In a table having a base and a top turnable horizontally thereon, a device for releasably holding the top in a turned position comprising: a keeper element carried by said base having a socket open in a horizontal and in a vertical direction; a latch element carried by said top spring-pressed vertically and horizontally into the socket; a brake for yieldingly holding the top against turning; a manually operated element connected with the brake and having a movement in engagement with the latch element for withdrawing the same from the socket and for releasing the brake.

6. In a table having a base and a top turnable horizontally thereon, a device for releasably holding the top in a turned position comprising: a keeper element carried by said base having a socket open in a horizontal and in a vertical direction, and a vertically inclined slide bearing leading thereto; a bar springable in vertical and horizontal directions, mounted at one end on said top and having at its free end a latch element pressed by said bar vertically on said bearing and vertically and horizontally into the socket.

In testimony whereof I have hereunto set my hand at Grand Rapids, Michigan, this 5th day of May, 1931.

WILLIAM E. LARSON.