July 5, 1927. 1,634,929

A. BLITZ ET AL

SWINGING TABLE

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FIG. 1

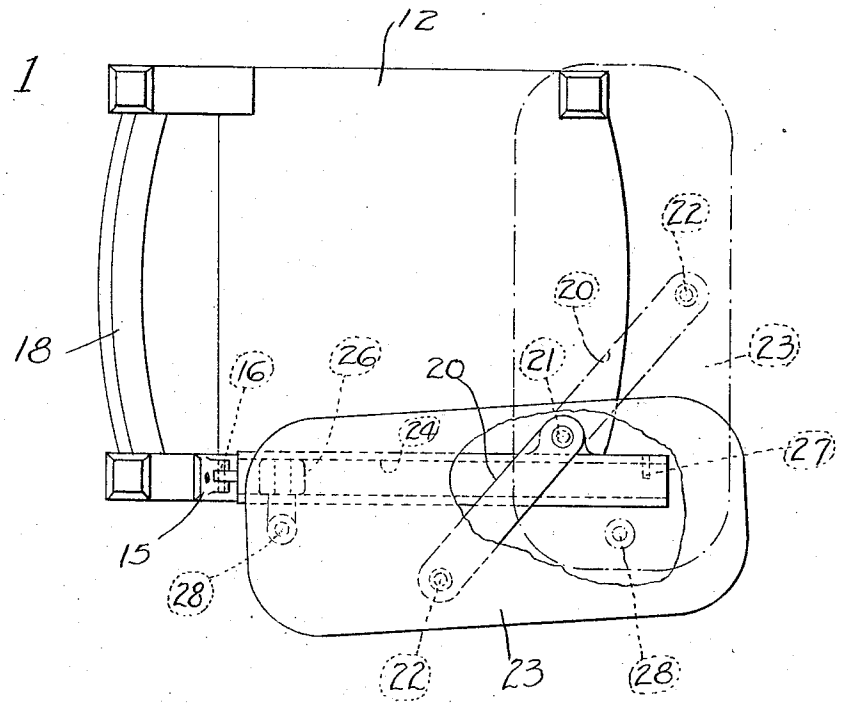
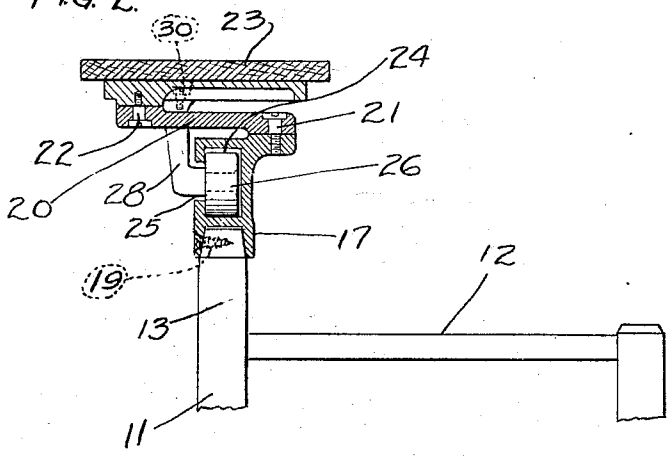


FIG. 2.



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FIG. 3

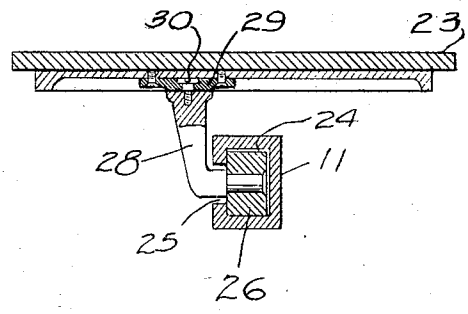
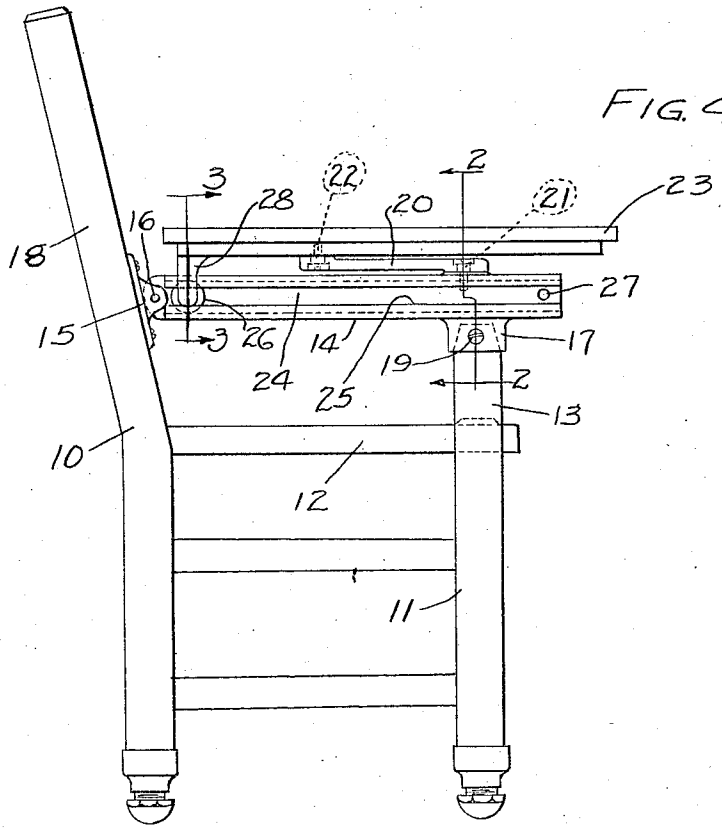


FIG. 4



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UNITED STATES PATENT OFFICE.

ADOLF BLITZ AND ALBERT S. KUX, OF CHICAGO, ILLINOIS.

SWINGING TABLE.

Application filed August 8, 1925. Serial No. 49,062.

This invention relates to improvements in swinging tables particularly adapted though not necessarily limited in its use with, and adapted to be connected to, a chair, and one of the objects of the invention is to provide an improved table of this character which may be readily attached to a support and which will necessitate a minimum space to swing the same from one position to another with respect to the support.

A further object is to provide an improved swinging table of this character which when attached to a chair may be swung into a position at the side thereof and also across the front of the chair, and when in either position the table will be compactly arranged with respect to the chair, thereby enabling chairs having this improved table attached thereto to be arranged closely beside each other, with the result that there will be provided an arm table chair which will possess all of the attributes of the present arm table chairs with the additional advantages of the present invention.

A further object is to provide an improved table of this character which will be of a simple, durable and rigid construction, effective and efficient in operation and which may be readily applied to a chair or other support.

To the attainment of these ends and the accomplishment of other new and useful objects as will appear, the invention consists in the features of novelty in substantially the construction, combination and arrangement of the several parts hereinafter more fully described and claimed and shown in the accompanying drawings, and in which drawings,

Figure 1, is a top plan view of a table of this character and showing the same as applied to a chair, a portion of the table being broken away and showing, in dotted lines, the parts in a changed position.

Figure 2, is a sectional view on line 2—2 Figure 4.

Figure 3, is a sectional view on line 3—3 Figure 4.

Figure 4, is a side elevation of Figure 1.

Referring more particularly to the drawings the numeral 10 designates generally a chair one of the supporting legs 11 of which extends for any suitable distance above the seat 12 to form a support 13.

A track or supporting member 14 is secured to the chair in any suitable manner and preferably along one side thereof such as by means of a bracket 15 which is hingedly connected to one end of the track or member 14 as at 16.

A downwardly opening socket portion 17 is carried by the track or member 14 and is adapted to receive the upper extremity of the extension or support 13.

The bracket 15 is secured to the back 18 of the chair and by reason of the hinge or pivot 16, the bracket may assume any position with respect to the track or member 14 to adapt itself to the angle of inclination of the back of the chair with respect to the seat thereof.

If desired a suitable fastening device 19 such as a screw may be employed for securing the front end of the track or member 14 against displacement with respect to the extension or support 13.

An arm 20 is pivotally connected, in any desired or suitable manner such as by means of a pivot 21, and by one extremity to the track or member 14 and is supported thereby to swing on an upright axis. This arm may be of any desired size and configuration and is pivotally connected in any desired or suitable manner, such as by means of a pivot 22 to the bottom of a table 23 of any desired size and configuration and so that the table will swing with the arm when the latter is moved about the pivot 21 and will also have a movement with respect to the arm about the pivot 22 and also on an upright axis.

The arm also serves as a support for the table or platform.

The track or member 14 is provided with a channel or guide way 24 which preferably opens through one side thereof and extends lengthwise thereof and also opens through the end of the track or member. The opening 25 of the channel is preferably reduced to prevent a lateral displacement of a roller 26 which runs in the channel and is prevented from passing out of the end of the channel in any suitable manner such as by means of a stop device 27.

A bearing 28 to which the roller 26 is journaled extends through and is movable lengthwise of the opening 25 of the track or member 14 and preferably projects upwardly and is secured to the bottom of the table or platform 23 as at 29 and a swivel or joint 30 is interposed between the table 23 and the roller 26 to permit the table and the roller to have a relative pivotal move-

ment one with respect to the other on an upright axis.

Obviously any form of pivot connection between the parts may be employed and any shaped track or any co-operating roller may also be employed.

In use and assuming the parts to be in the position shown in full lines in Figure 1, the table will be held in close proximity to the chair.

The table may be swung from the full line to the dotted line position in Figure 1 by causing the arm 20 to swing about the pivot 21. During this movement the roller 26 will travel forwardly in the channel 24 and the table 23 and arm 20 will be given a relative pivotal movement about the upright pivot 22.

When the table is moving back to the full line position in Figure 1, the roller 26 will travel backwardly in the channel 24 to the position shown in Figure 4 and the arm 20 will be correspondingly swung about its pivot 21.

With this improved construction it will be manifest that chairs having attachments of this character connected thereto may be arranged in close proximity side by side and when the table is swung from the full to the dotted line position in Figure 1, a minimum space is required and the same will not swing over the next adjacent chair. Likewise when the movement of the table is reversed it will assume the full line position in Figure 1 without interfering with the next adjacent chair or the occupant thereof as the table will be maintained at all times in close proximity to its support.

Obviously the track or member 14 may be of any desired configuration according to the direction which it is desired for the table to swing.

While the preferred form of the invention has been herein shown and described it is to be understood that various changes may be made in the details of construction and in the combination and arrangement of the several parts within the scope of the claims without departing from the spirit of this invention. While the element 26 throughout the specification and claims has been described as a roller it is to be understood that the element may be a shoe or the like.

What is claimed as new is:

1. In combination a supporting member having a longitudinal groove therein, an arm pivotally supported at one end by the member and adjacent one end of the member, a table connected with the arm for movement on an upright pivot, a roller movable in the said groove, and a support for the table, the last said support depending from the table and to which support the roller is connected.

2. In combination a supporting member having a longitudinal track, an arm pivotally supported by one end by the member, a table connected with and supported by the arm for movement therewith and also with respect thereto on an upright axis, a roller movable on the track, a member connected with and extending above the roller and to which member the roller is journaled, and means connecting the last said member with the table for relative pivotal movement on an upright axis.

3. In combination a supporting member having a longitudinal track, an arm pivotally supported by one end of the member, a table connected with and supported by the arm for movement therewith and also with respect thereto on an upright axis, a roller movable on the track, a member connected with and extending above the roller and to which member the roller is journaled, and means connecting the last said member with the table for relative pivotal movement on an upright axis, the points of pivotal connection between the arm and the said bearing with the table being fixed and spaced with relation to each other.

4. In combination a supporting member having a channel opening through one of the lateral faces thereof, an arm pivotally connected at one end to the member for movement on an upright pivot, a table supported by and connected with the other end of the arm for movement on an upright pivot, a support connected with the table and depending therefrom, a roller connected with the last said support for rotation on a horizontal axis, said roller being movable in and along the said channel when the said arm is swung about its pivot, and means whereby a movement may be given to the table on a pivot transverse to the axis of the roller when the said roller is moved lengthwise of the said channel.

5. In combination a supporting member having a longitudinal channel therein, a bracket pivotally connected with the member adjacent one end thereof, a support receiving socket carried by the member, an arm pivotally connected at one end with the member, a table connected with the arm for movement on an upright pivot with respect to the arm, a roller within and adapted to traverse the said channel, and an operative connection between the roller and the said table, the said connection embodying means whereby the table is adapted for relative movement with respect to the roller on a pivot transverse to the axis of rotation of the roller.

6. In combination a supporting track, an arm supported at one end by the track and for pivotal movement on an upright axis, a table, an upright pivot forming a connection between the table and the said arm, a roller adapted to travel lengthwise of the said track, and means forming a connection

between the roller and the table, the last said means including formations whereby the table will be adapted for pivotal movement on an upright pivot transverse to the axis of the roller, the said means also assisting in supporting the table.

7. In combination a supporting track, an arm supported by one end by the track and for pivotal movement on an upright axis, a table, an upright pivot forming a connection between the table and the said arm, a roller adapted to travel lengthwise of the said track, means forming a connection between the roller and the table, the last said means including formations whereby the table will be adapted for pivotal movement on an upright pivot transverse to the axis of the roller, the said means also assisting in supporting the table, means for anchoring said support, and a downwardly opening socket carried by the said track and adapted to receive a support.

8. In combination a supporting track, an arm supported by one end by the track and for pivotal movement on an upright axis, a table, an upright pivot forming a connection between the table and the said arm, a roller adapted to travel lengthwise of the said track, means forming a connection between the roller and the table, the said means including formations whereby the table will be adapted for pivotal movement on an upright axis transverse to the axis of the roller, the said means also assisting in supporting the table, a bracket pivotally connected with the track, and a downwardly opening socket carried by the track and adapted to receive a support.

9. In combination a supporting member having a longitudinal track, an arm pivotally supported at one end by the member and adjacent one end of the member, a table connected with the arm for movement on an upright pivot, an element movable on the track, and a support for the table, the said support being interposed between the table and the said element and connected to both.

10. In combination, a supporting member having a longitudinal track, an element movable upon the track, a table connected with said element for movement about an upright pivot, and an arm pivotally connected at one end with the said support and at its other end with the table, the last said pivot being disposed at a point remote from the first recited pivot.

11. In combination, a supporting member, a guide carried thereby, an element co-operating with the guide and movable lengthwise thereof, a table connected with said element for movement about an upright pivot, and a link pivotally connected at one end with the said support and at its other end with the table.

In testimony whereof we have signed our names to this specification, on this 6th day of August, A. D. 1925.

ADOLF BLITZ.
ALBERT S. KUX.