W. KORNASZEWSKI.

COMBINED TABLE AND SEAT.

APPLICATION FILED JAN. 2, 1920.

1,342,387.

Patented June 1, 1920.

3 SHEETS—SHEET 1.

Fig. 1.

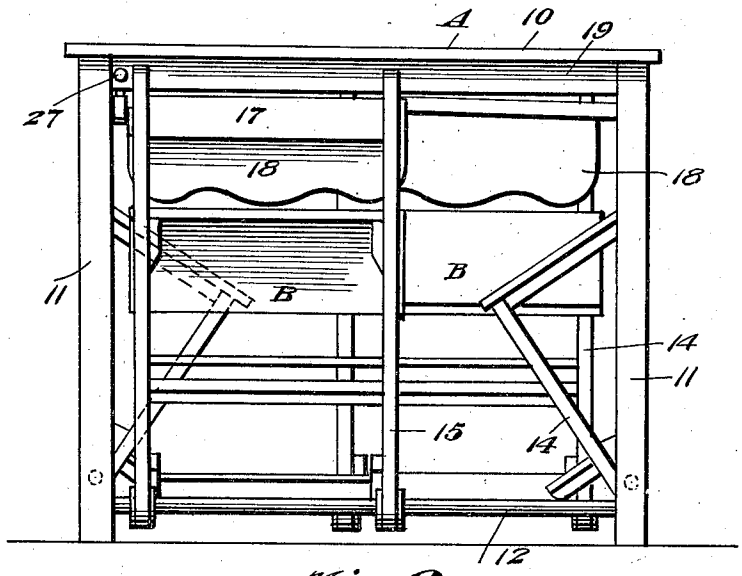
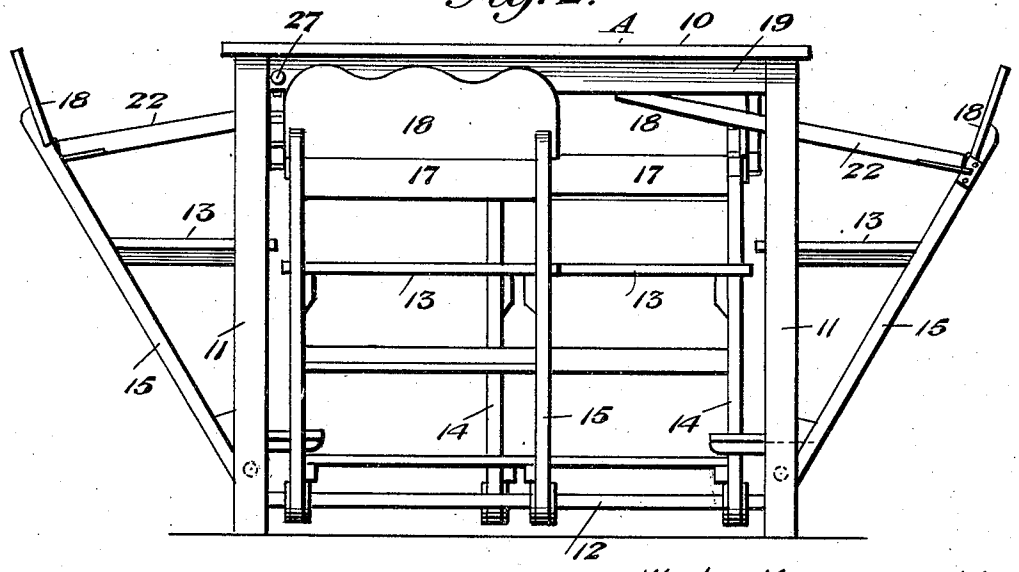


Fig. 2.



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3 SHEETS—SHEET 2.

Fig. 3.

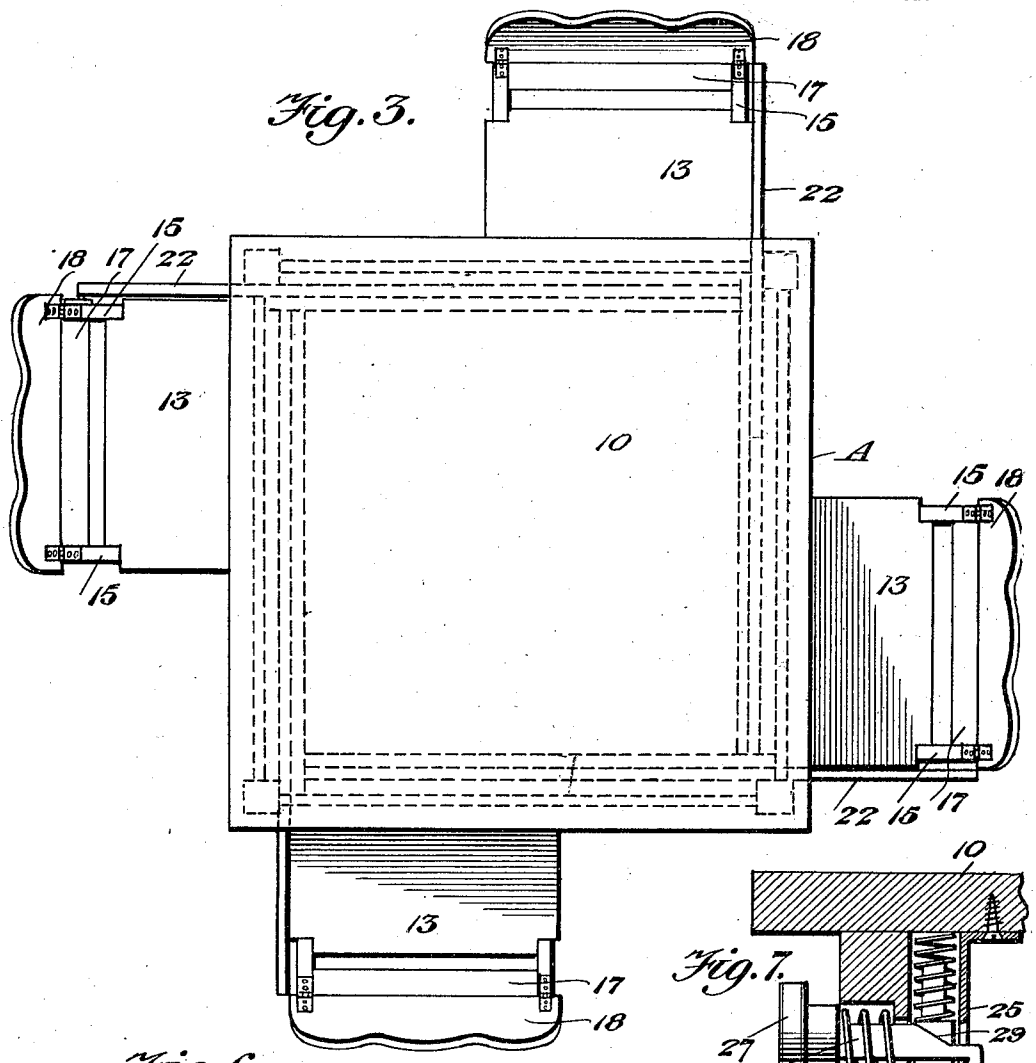


Fig. 6.

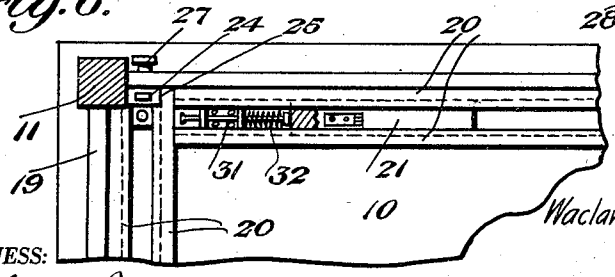


Fig. 7.

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3 SHEETS—SHEET 3.

Fig. 5.

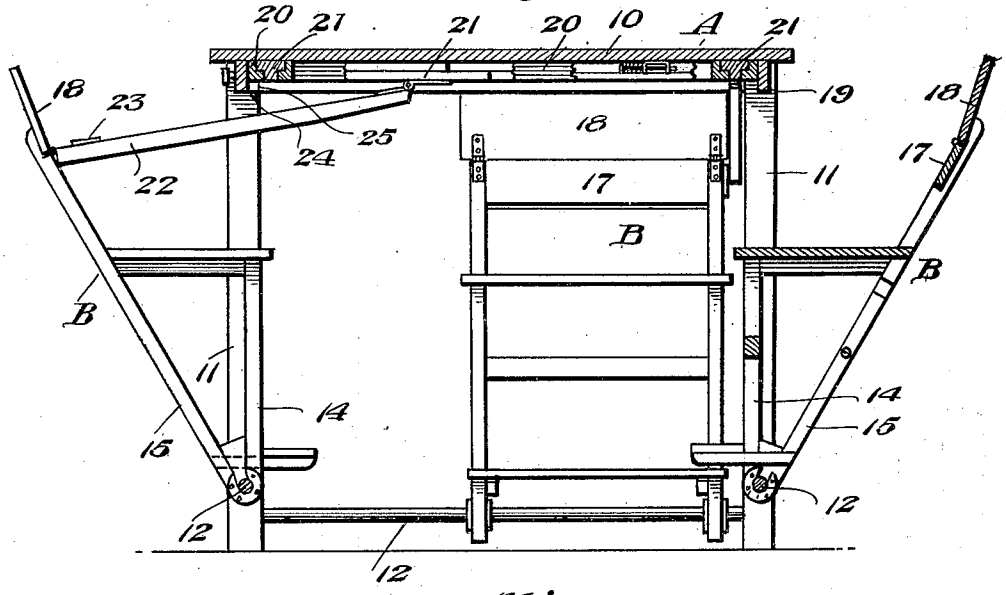
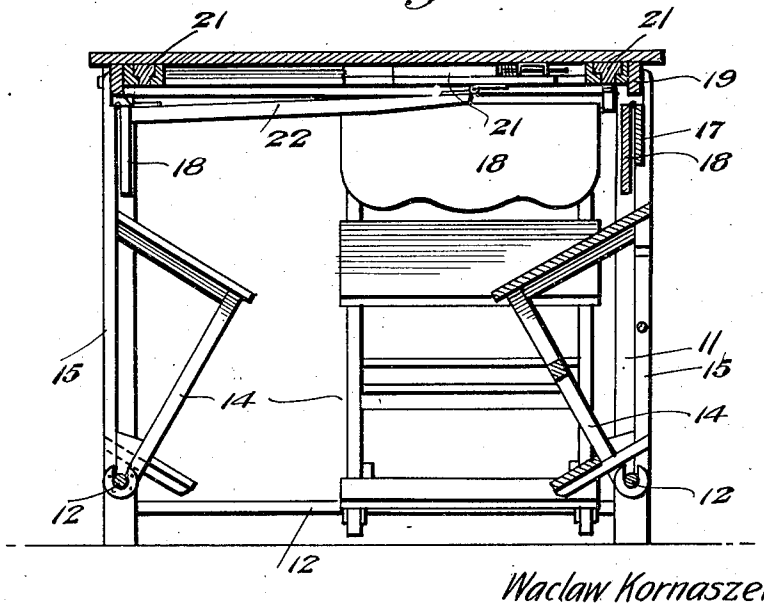


Fig. 4.



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COMBINED TABLE AND SEAT.

1,342,387. Specification of Letters Patent. Patented June 1, 1920.

Application filed January 2, 1920. Serial No. 348,744.

To all whom it may concern:

Be it known that I, WACLAW KORNASZEWSKI, a citizen of Poland, residing at Detroit, in the county of Wayne and State of Michigan, have invented new and useful Improvements in Combined Tables and Seats, of which the following is a specification.

This invention relates to furniture and has particular application to a combined chair and table.

The chief characteristic of the invention resides in mounting a chair for pivotal movement upon the lower part of the table whereby the chair can be swung to a position beneath the table, or moved to a position beyond one side of the table for use, in combination with means for locking the chair in its folded position beneath the table.

Another object of the invention resides in the provision of a resilient element constituting a buffer for the chair when the latter is swung from an extended position to its folded position beneath the table, the resilient element further functioning automatically to move the chair from its folded to its active position upon the release of the locking means utilized for holding the chair in its folded position.

With these and other objects which will appear from the following detailed description when taken in connection with the accompanying drawing, the invention resides in the construction, combination and arrangement of parts as claimed.

In the drawings forming part of this specification, like numerals of reference indicate similar parts in the several views and wherein:

Figure 1 is a side elevation of the table showing the chairs in folded position.

Fig. 2 is a similar view showing the chairs extended to a position for use.

Fig. 3 is a top plan view showing all of the chairs extended.

Fig. 4 is a vertical sectional view of the table showing the position of parts when the chairs are in folded position.

Fig. 5 is a similar view showing the position of parts when the chairs are in extended position.

Fig. 6 is a fragmentary horizontal sectional view taken through the table.

Fig. 7 is an enlarged detail sectional view of the locking means for the chairs.

Referring to the drawing in detail, A indicates generally the table, the chairs associated therewith being indicated at B.

The table A may be of any suitable design and includes a top 10 and supporting legs 11. The legs are connected adjacent their lower ends by means of rungs or transverse rods 12.

The chairs each comprise a seat 13 which is connected and supported by front and rear legs 14 and 15 respectively, the latter being disposed at an angle or inclination with respect to the front legs 14 and connected at their lower ends to the front legs. The legs 15 project an appreciable distance above the seat 13, and are connected together by a fixed section 17 and a movable section 18 of a back. The movable section 18 is hinged upon the fixed section 17 to fold down and against the latter in parallelism therewith, prior to folding of the chair to its position beneath the table in a manner to be hereinafter described. It will be noted, that the rear legs 15 project slightly above the top of the fixed section 17 of the back, to constitute a rest for the movable section 18 when the latter is swung into a position in vertical alinement with the fixed section. It might here be stated, that the upper ends of the rear legs 15 also contact against the depending wall 19 of the table when the chairs are in folded position. The legs 15 are provided with openings for the reception of the rungs or rods 12, and in this manner the chairs are pivotally mounted for movement to a folded position or to a position for use.

For the purpose of guiding each chair in its movements, and also to limit the movement of each chair to its position beyond the table, I provide the underside of the table with a pair of spaced cleats 20 defining guides for the slide 21. Terminally secured to one of the rear legs 15 of each chair and projecting beneath the table is an arm 22, which has its opposite end hingedly secured to the slide 21. By reason of this construction, it is obvious that the slide tends to guide the chair in its movement, and when the slide 21 contacts one end of the guide groove defined by the cleat 20, the slide tends to limit the movement of the chair from its folded to its extended position.

For locking the chair in its folded position the arm 22 is equipped with a keeper 23

which is automatically engaged by a bolt 24 when the chair is swung to its folded position. This bolt 24 is vertically disposed and operates through an opening in a casing 25. The bolt is normally disposed in the path of movement of the keeper plate 23, to engage the latter in the manner above stated when the chair is swung to its folded position. The bolt 24 is provided with an elongated opening 26 through which slides the shank of a spring pressed operating pin 27. The shank 28 is provided with a cam surface or edge 29 which coöperates with the adjacent edge of the slot or opening 26 of the bolt to elevate the latter when the pin is pushed upon. A spring 30 encircles the shank 28 and bears against the depending wall 19 of the table at the head of the pin, and functions to maintain the pin extended to position whereby the bolt 24 is permitted to assume a position in the path of movement of the keeper plate 23. However, when it is desired to make use of the chair, the pin 27 is pressed inwardly against the tension of the spring 30 whereupon the cam edge 29 moving over one or all of the slots 26 elevates the bolt 24 to a position to release the chair as will be readily understood.

Positioned within the guide groove defined by the spaced cleats 20, is a headed bolt or the like 31 surrounded by a coiled spring 32 which yieldably supports the bolt as shown. The bolt is disposed in the path of movement of the slide 21, so that when the chair is swung inwardly upon its pivot the slide is brought into contact with the yieldably mounted bolt 31, so that the latter provides a cushion to absorb any shock or jar which might occur incident to the folding of the chair. However, the spring pressed bolt 31 is primarily intended to throw the chair from its folded to an extended position, when the chair is released from the bolt 24. Obviously, when the chair is moved to a folded position, the spring 32 is placed under tension and held in this condition by reason of the fact that the chair is locked by means of the bolt 24 in said position. When the bolt is actuated to release the chair, the spring 32 expands and moves the chair upon its pivot from a folded to an extended position. While I have shown only one chair at each side of the table, I desire to have it understood that any number of chairs may be mounted in the manner described and used in connection with the single table, this however depending largely upon the design of the table and the size of the same.

While I have shown and described what I consider the preferred embodiment of the invention, I desire to have it understood that I do not limit myself in this connection, and that such changes may be resorted to when desired as fall within the scope of what is claimed.

What is claimed is:—

1. In combination, a table including pairs of supporting legs, a rung connecting each pair of supporting legs, a chair pivotally mounted upon said rung and adapted to swing beneath the table to a folded position or beyond the table to a position for use, means for locking the chair in folded position, and means operable upon release of said chair from the locking means for automatically moving the chair to an extended position for use.

2. In combination, a table including supporting legs, a rung connecting each pair of legs, a chair pivotally mounted upon said rung and adapted to swing to a position beneath the table when not in use or to be swung to a position beyond the table for use, means for locking the chair in folded position, means for automatically moving the chair from a folded position to its extended position upon release of the chair from said locking means, and means for guiding and limiting the movement of said chair from its folded to its extended position.

3. In combination, a table including supporting legs, a rung connecting each pair of legs, a chair pivotally mounted upon said rung and adapted to be swung to a position beneath the table or to an extended position beyond the table, said chair including a back, an arm connected to said back and extended beneath the table, means associated with said arm and table for guiding and limiting the movement of said chair, a locking bolt mounted upon the table, and means carried by said arm and adapted to automatically engage said bolt when the chair is swung to its folded position for the purpose specified.

4. In combination, a table including supporting legs, a rung connecting each pair of supporting legs, a chair pivotally mounted upon said rung and adapted to be swung to a position beneath the table, or to a position beyond the table, guides secured beneath the table, the slide movable in said guides, an arm providing a connection between the chair and said slide, said slide limiting the movement of the chair from its folded to its extended position, and means for automatically engaging the chair when the latter is swung to a folded position for holding the chair in said position.

5. In combination, a table including supporting legs, a rung connecting each pair of legs, a chair pivotally mounted upon the rung and adapted to be swung beneath the table or to a position beyond the table, guides secured beneath the table, a slide operable in said guides, a connection between

the slide and said chair, a yieldable means arranged within said guides and adapted to be engaged by the slide placed under tension when the chair is moved to a folded position, means designed to automatically engage the chair when the latter is swung to a folded position to hold the chair in said position and said yieldable means adapted to automatically move the chair from a folded position to an extended position for use when the chair is released from the last mentioned means.

In testimony whereof I affix my signature.

WACLAW KORNASZEWSKI.