J. ZIELINSKI.

COMBINED TABLE AND CHAIR.

APPLICATION FILED NOV. 8, 1921.

1,417,655.

Patented May 30, 1922.

2 SHEETS—SHEET 1.

Fig. 1.

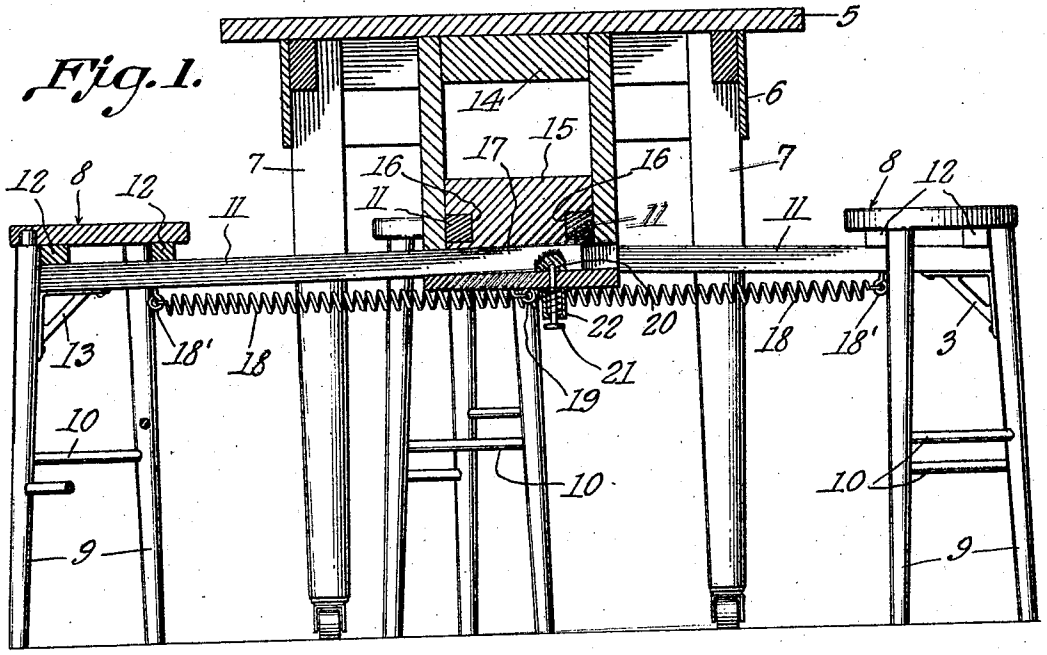
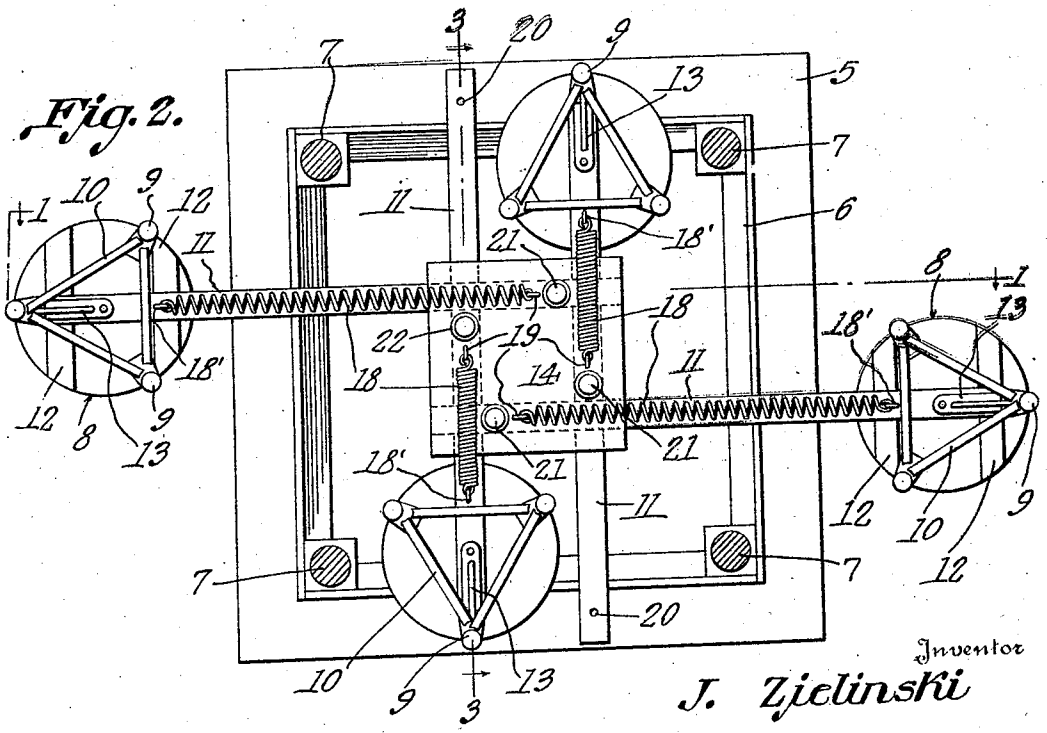


Fig. 2.



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2 SHEETS—SHEET 2.

Fig. 3.

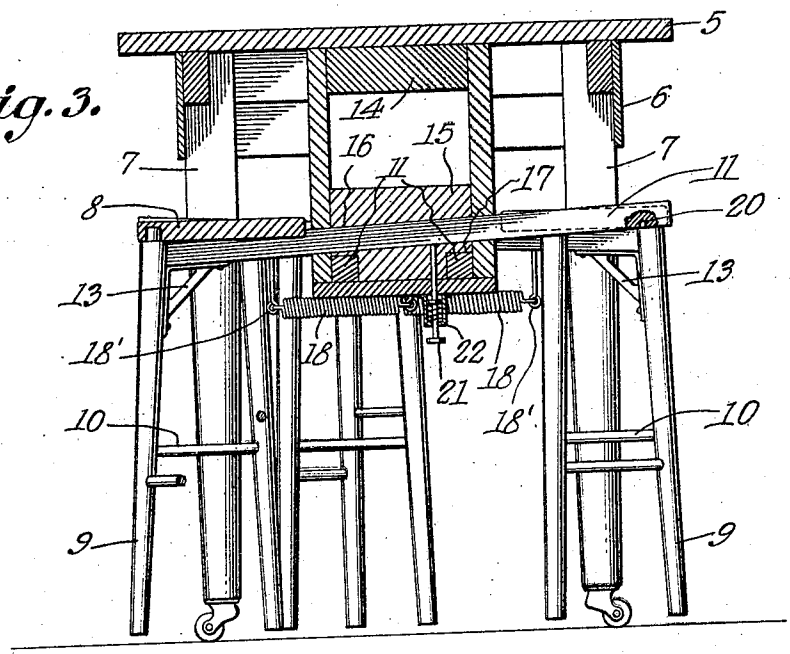
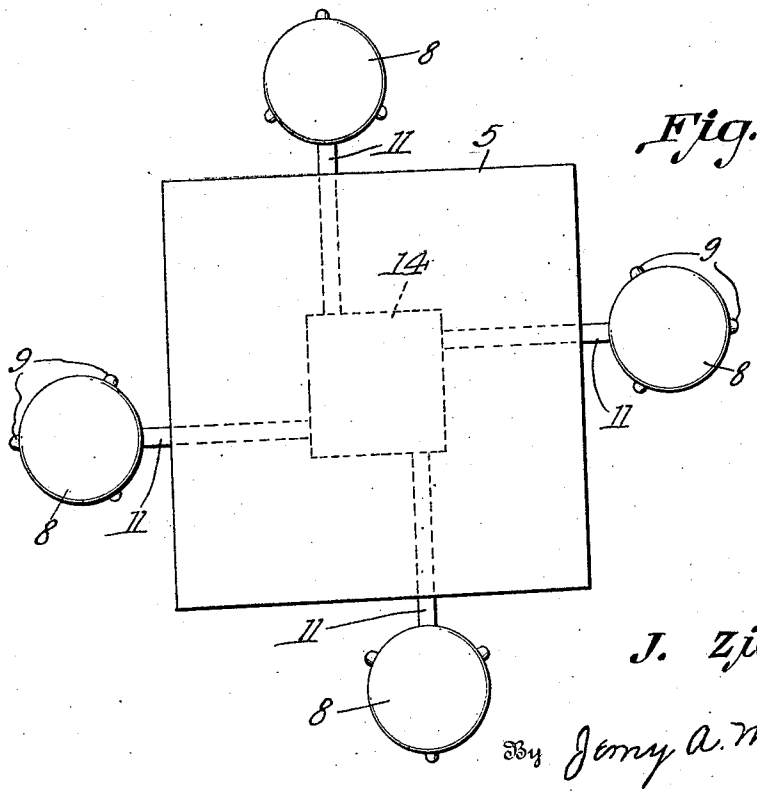


Fig. 4.



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UNITED STATES PATENT OFFICE.

JOSEPH ZIELINSKI, OF EAST ST. LOUIS, ILLINOIS.

COMBINED TABLE AND CHAIR.

1,417,655. Specification of Letters Patent. Patented May 30, 1922.

Application filed November 8, 1921. Serial No. 513,762.

To all whom it may concern:

Be it known that I, JOSEPH ZIELINSKI, a citizen of the Republic of Poland, residing at East St. Louis, in the county of St. Clair and State of Illinois, have invented certain new and useful Improvements in Combined Tables and Chairs, of which the following is a specification.

My invention relates to a combined table and chair or chairs.

An important object of the invention is to so connect the table with a chair or chairs, that the chair may be moved inwardly toward the table, when not in use, and will at the same time be elevated, out of contact with the floor, and entirely supported by the table, so that the table carrying the chair or chairs may be easily shifted upon the floor.

A further object of the invention is to provide apparatus of the above mentioned character, which is convenient in use, strong, durable, and attractive in appearance.

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

In the accompanying drawings forming a part of this specification, and in which like numerals are employed to designate like parts throughout the same,

Fig. 1 is a vertical sectional view taken on line 1—1 of Figure 2 with the chairs in the outer position,

Fig. 2 is a bottom plan view of the table,

Fig. 3 is vertical section taken on line 3—3 of Figure 2, showing the chairs in the inner position, and,

Fig. 4 is a plan view of the apparatus, with the chairs in the outer position.

In the drawings, wherein for the purpose of illustration is shown a preferred embodiment of my invention, the numeral 5 designates the top of the table, embodying the frame 6, and the legs 7. These legs carry casters to permit of the table being conveniently shifted upon the floor. The invention is not restricted to the construction of the table per se, as such construction may be varied.

The numeral 8 designates the seats of chairs or stools. Throughout the specification and claims I will use the word "chair" in its broad sense, meaning a chair, stool, or any suitable support for a person desiring to sit near the table. The seat 8 of each chair is supported by legs 9, which are preferably in a triangular group, with the base of the triangle arranged nearest the table. The legs are rigidly secured to the seat 8 by any suitable means, and the legs may be connected by rungs or spokes 10, as shown. As is clearly shown in the drawings, two sets of chairs are provided, which sets are arranged at a right angle to each other, which is preferred when the chairs are associated with a square table, but this arrangement of chairs may be varied, as may be found advantageous when used in connection with a table of different shape or size.

The numeral 11 designates guide elements or bars, which are rigidly secured to the chair or chair seats 8. These bars project under the chair seats, and in connection with one set of the chairs, the bars are directly connected with the bottom of the seats 8 by screws or any other suitable means. In connection with the other set of chair seats, spacing bars 12 are arranged beneath the seats 8 and are rigidly secured thereto, and the bars 11 are rigidly mounted upon the spacing bars 12. The purpose of this construction is to arrange one set of bars 11 in a plane beneath that of the other set. It is preferred that a bracket 13 be connected with the outer end of each guide bar 11 and the adjacent leg of the chair, which leg is at the outer apex of the triangle group of legs. This I have found affords a strong and light construction, while the invention is in no sense restricted to this particular arrangement.

Arranged beneath the top 5 of the table, and centrally thereof, is a casing or connecting structure 14, which casing is rigidly secured to the top 5. The casing holds within its lower portion, a guide block 15, rigidly secured therein. This guide block is provided with openings or grooves 16 and 17. The openings 16 constitute one set, and these openings are in a plane above the openings 17 in the other set. The openings 16 in the same set are parallel to each other, and spaced, and are at right angle to the openings 17. The openings 17 are parallel, and spaced. The arrangement of the openings 16 and 17 in planes above each other, is to properly receive the sets of guide bars 11, which are arranged in different planes, as above described. In order that the chairs may be raised so that their legs are moved out of contact with the floor, when the chairs

are shifted inwardly, beneath or in proximity to the table, I preferably incline the openings 16 and 17, the inclination extending upwardly from the chair toward the table, so that the guide bars will raise the chairs as they are shifted toward the table.

Means are provided to automatically shift the chairs inwardly, from the outer position, when released. For this purpose, a retractile coil spring 18 extends longitudinally of each guide bar 11, preferably beneath the same. One end of this spring is attached to the bar 11 near the chair, at 18′, while the other end of the spring is attached to the bottom of the casing 14, as shown at 19.

In order that each chair may be locked in the outer position, I preferably provide a recess or opening 20 in each bar 11, near its inner end, which opening is adapted to receive a spring-pressed bolt 21, automatically entering the opening when the chair is moved to the outer position. This bolt is carried in a casing 22, secured to the bottom of the casing 14. The bolt also serves to limit the outward movement of the chair with relation to the table.

In use, the chairs may be shifted to the outer position, Figs. 2 and 4, and will be locked in this position by the bolts 21 entering the openings 20. When the table is not in use, the bolts may be pulled downwardly and the bars 11 will be released. The springs will automatically shift the chairs to the inner position, in proximity to or beneath the table, and the chairs will be elevated so that their legs do not contact with the floor, which is due to the inclination of the bars 11 and the openings 16 and 17.

It is to be understood that the form of my invention herewith shown and described, is to be taken as a preferred example of the same, and that various changes in the shape, size and arrangement of parts may be resorted to without departing from the spirit of my invention or the scope of the subjoined claims.

Having thus described my invention, I claim:

1. The combination with a table having a top and legs depending from the top, of a housing arranged substantially centrally beneath the top and secured thereto, said housing having an inclined opening formed therein, a reciprocatory guide bar arranged at an inclination and slidable within said opening, a chair connected with the outer end of the reciprocatory bar and adapted to be bodily raised thereby, means to shift the reciprocatory bar inwardly, whereby the chair is automatically elevated out of contact with the floor, and means to lock the bar in the outer position.

2. The combination with a table having a top and legs depending from the top, of a housing arranged substantially centrally beneath the top and secured thereto and spaced from the legs, said housing having inclined openings formed therein, inclined reciprocatory bars slidable within said openings, chairs connected with the outer ends of the bars and adapted to be bodily elevated when the bars are moved inwardly, retractile coil springs connected with the bars and with the housing to move the bars inwardly, and automatic means to lock each bar in the outer position when shifted thereto.

3. The combination with a table having a top and legs depending from the top, of a housing arranged beneath the top substantially centrally thereof and connected with the top, said housing having sets of inclined openings, one set being arranged above the other set and disposed at substantially a right angle thereto, reciprocatory bars slidably mounted in the sets of openings, chairs mounted upon the outer ends of the bars, retractile coil springs connected with the bars and the housing, and a spring pressed bolt carried by the housing and adapted to engage with each bar to lock it in the outer position when shifted thereto.

In testimony whereof I affix my signature.

JOSEPH ZIELINSKI.