A. G. GIRARD.

FURNITURE.

APPLICATION FILED MAY 17, 1920.

1,407,405. Patented Feb. 21, 1922.

2 SHEETS—SHEET 1.

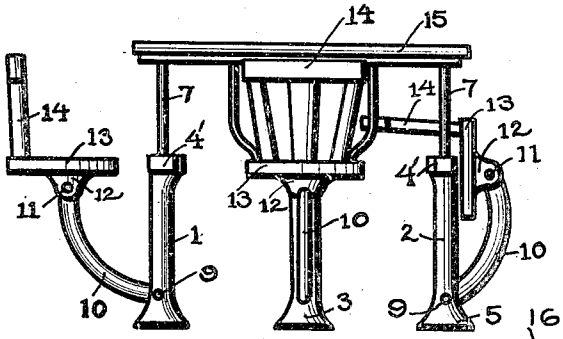


Fig. 1

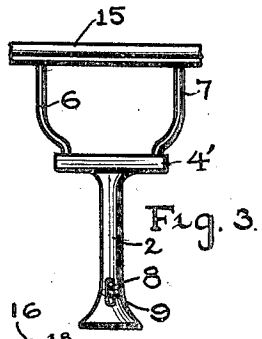


Fig. 3.

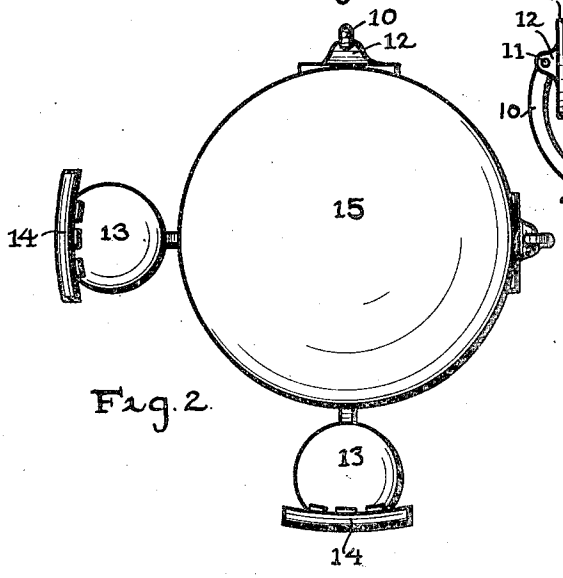


Fig. 2.

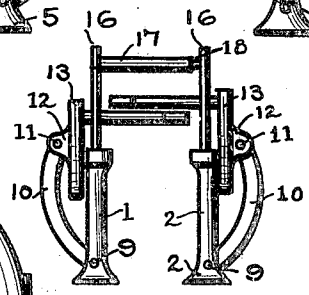


Fig. 7.

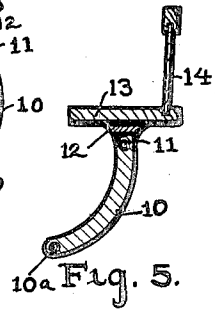


Fig. 5.

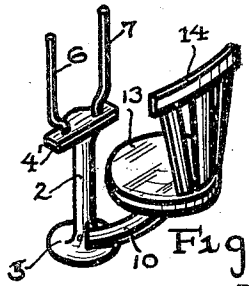


Fig. 6.

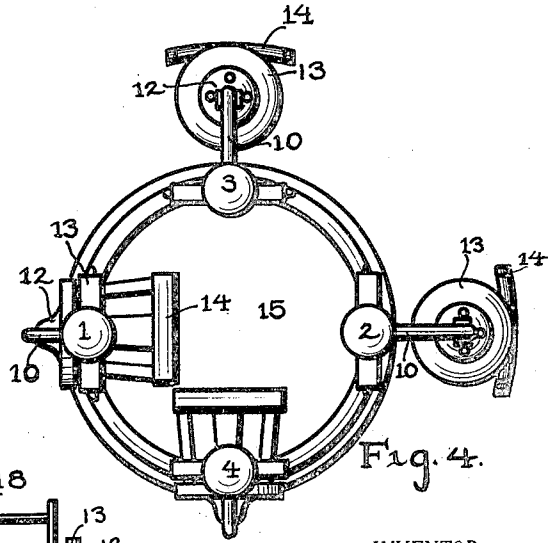


Fig. 4.

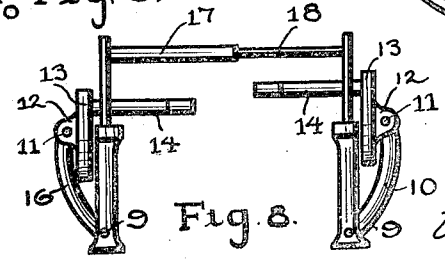


Fig. 8.

INVENTOR.

Albert G. Girard

BY

William E. Baff ATTORNEY.

A. G. GIRARD.

FURNITURE.

APPLICATION FILED MAY 17, 1920.

1,407,405. Patented Feb. 21, 1922.

2 SHEETS—SHEET 2.

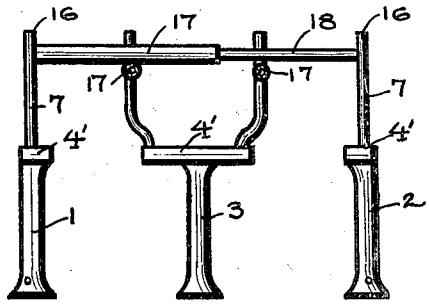


Fig. 9.

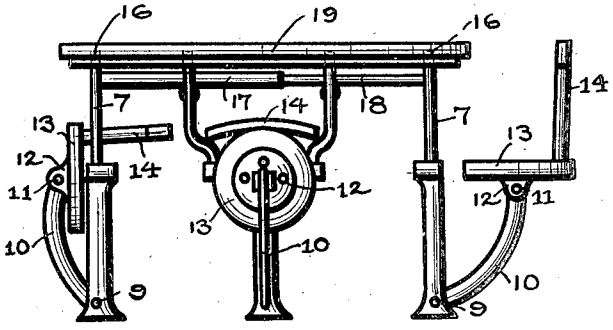


Fig. 10

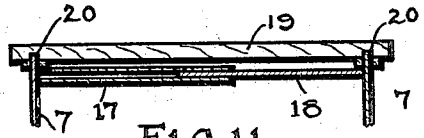


Fig. 11

INVENTOR.

Albert G. Girard

BY

William E. Baff ATTORNEY.

UNITED STATES PATENT OFFICE.

ALBERT G. GIRARD, OF WORCESTER, MASSACHUSETTS, ASSIGNOR OF ONE-HALF TO FAYETTE A. AMIDON, OF WORCESTER, MASSACHUSETTS.

FURNITURE.

1,407,405. Specification of Letters Patent. Patented Feb. 21, 1922.

Application filed May 17, 1920. Serial No. 382,141.

To all whom it may concern:

Be it known that I, ALBERT G. GIRARD, a citizen of the United States of America, and a resident of the city of Worcester, in the county of Worcester and State of Massachusetts, have invented new and useful Improvements in Furniture, of which the following is a specification.

This invention relates to improvements in furniture and more particularly to combination table and chairs.

One of the objects of my invention is to provide an arrangement whereby a number of seats or chairs is adapted to be foldably connected to a table.

Another object of my invention is to provide a simple, efficient and inexpensive device of the character described adapted to permit a table and seats to be made from a unitary structure and so arranged that the seats may readily fold to a position directly under the table.

A still further object of my invention is to provide an arrangement designed to allow a seat which forms an accompaniment to a table or desk to be foldably disposed out of the way from a position alongside the table to one beneath the table.

Another object of my invention is to provide an arrangement wherein there is adapted to be provided a series of seats or chairs mounted upon movable supports, and held in foldable relation upon these supports in such a manner that all the seats may be folded within or under the table top, thus allowing the table and the seats to be readily moved at the same time and in one operation.

A still further object of my invention is to provide a device which shall include not only a table but a number of foldable seats as well, it being understood that the seats may be separately folded under the table.

And it is another object of my invention to provide in a device as described, in combination, means whereby the table and seat supports may be readily collapsed and thus made to occupy but very little room.

With the above and other objects in view, my invention consists in the arrangement, combination and details of construction disclosed in the drawings and specification, and then more particularly pointed out in the appended claims.

In the drawings wherein similar reference characters designate similar parts throughout the respective views,

Figure 1 is a side elevation of one form of my invention,

Figure 2 is a top plan view thereof, showing certain of the seats in folded position,

Figure 3 is a fragmental detail view of said invention,

Figure 4 is a bottom plan view of said invention,

Figure 5 is a sectional detail view of a seat and swinging supporting arm,

Figure 6 is a perspective view of the seat, its support and a table support,

Figure 7 is a front elevation of the collapsed form of my invention,

Figure 8 is a front elevation of the parts shown in Figure 7 but arranged in spread out relation.

Figure 9 is a view of the standards for the table and showing also the interlockable parts,

Figure 10 is a side view of the collapsed form of my invention,

Figure 11 is a fragmental sectional view of the table top and certain understructure thereof.

Referring to the drawings which are merely illustrative of my invention 1 and 2 designate the opposite sets of standards, while 3 and 4 designate the other similarly arranged set of standards disposed at right angles to those first mentioned. The broad flat base portions of these standards are designated 5 as indicated in Figure 1. A pair of upstanding wire arms 6 and 7 have lower curved ends secured into the cross bar 4′ which is fixedly and firmly secured upon the upper end of each standard 1, 2, 3, and 4. Each standard is furthermore provided at its lower end with a deep recess or socket 8 in which extends the pin 9 upon which is suitably trunnioned the lower end of a curved or segmental arm 10, the pin passing through the opening 10^a formed in the lower end of this arm. A pivot 11 extends in the upper end of the segmental arm 10 and upon this pivot is movably mounted the lug 12 formed at the bottom side of the seat 13 carrying the back 14. It will be noticed that when the curved arm 10 is forced back as far as it will go it will abut the lower edge of the notch or recess 8 which acts therefore as a suitable stop therefor. With

the parts thus arranged the seat 13 is supported firmly in a horizontal position. The distance or space between the upstanding arms 6 and 7 is sufficient to allow the back portion 14 to pass therethrough foldably. All of the seats are supported in this same manner so that it will be seen that by virtue of the pivots 11 the seats 13 are permitted to swing thereupon to a substantially horizontal position as shown in Figure 1, the curved arm having previously been swung upon its pivot 9, and the position of this arm and seat permits the back portion 14 to be swung through and between the wire arms 6 and 7 to occupy the position shown in Figure 1.

It is proposed to render the table structure collapsible and for this purpose the upstanding arms 6 and 7 of each standard carry interlockable extensible elements, in the nature of sleeves 17 projecting at right angles from these pair of arms 6 and 7 and rods projecting at right angles from the other pair of upstanding arms and designated 18, it being noticed that the uppermost terminals 16 of these upstanding arms project above the sleeves and corresponding rods therefor, and provide pins which are adapted to project into the bores 20 formed in the table top 19, any suitable catch (not shown) being adapted to hold the table top down in position upon these pins 16. It will be seen that a suitable set screw (not shown) may be adapted to hold the interlocking parts against displacement. When the rods slide in the sleeves the two standards of each pair of supports for the table top will telescope until the parts are as shown in Figure 7, collapsed and ready for shipment.

It will thus be seen that I have provided a simple and efficient and inexpensive arrangement that possesses the diserable qualities that it saves considerable space when on the floor owing to the seats folding under the table, enables the floor sweeper to reach under the table to better advantage in a smaller radius of movement about the table, permits the table and seats being moved at one stroke, allows the parts of the table being collapsed and thus more quickly shipped and will give more comfort to the occupants of the seats which form an accompaniment to the table. Numerous changes may be made in practice without departing in principle from the details herein disclosed.

What I desire to protect by Letters Patent is:—

1. In a device as described the combination of a pair of standards having broad base portions, upstanding arms arranged upon the upper ends of said standards, a pair of rightangularly disposed sleeves projecting forwardly from said upstanding arms of one standard, a pair of rightangularly disposed rods formed upon the upstanding arms of the other standard, said rods adapted to telescope in the sleeves of the other standard adjustably, and a foldable seat carried by each standard and adapted to be positioned between the upstanding arms of each standard.

2. In a device as described, the combination of a pair of standards having upstanding rods, a pair of sleeves projecting from the upper end of one pair of rods below the upper terminals thereof, a pair of rods projecting below the upper terminals of the other standard, said projecting rods adapted to enter the sleeves adjustably, a table top having bores into which the free terminals of all of said upstanding rods project whereby said table top holds said standards against separation, and seats carried by said standards.

3. In a device as described, the combination of a pair of standards having upstanding rods, a swinging arm having a connection in the lower portion of said standards, a seat foldably mounted opon said swinging arm and adapted to be positioned between the upstanding rods of each standard to a substantially folded horizontal position, and means whereby said standards may be moved towards and away from each other in adjustable relation.

4. In a device as described, in combination, a pair of horizontally adjustable standards, upstanding arms carried by said standards, a table top having bores into which said arms project to hold said standards against separation, and seats foldably connected to said standards.

In witness whereof he has hereunto set his hand and affixed his seal this 13th day of May, 1920.

ALBERT G. GIRARD. [L. S.]

Attested:

WILLIAM E. BAFF,
FAYETTE A. AMIDON.