Oct. 30, 1962 C. F. SARCHIA 3,061,373

LOUNGE CHAIR AND CONSTRUCTION THEREOF

Filed April 14, 1961 2 Sheets-Sheet 1

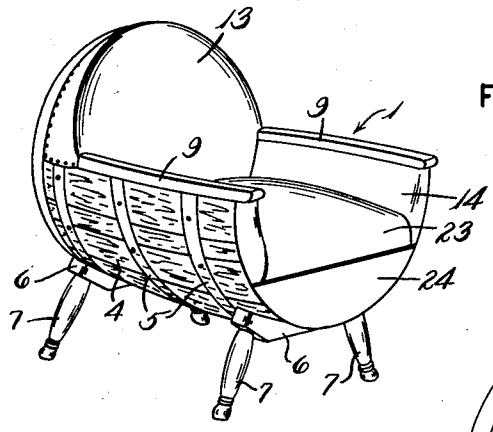


FIG. 1

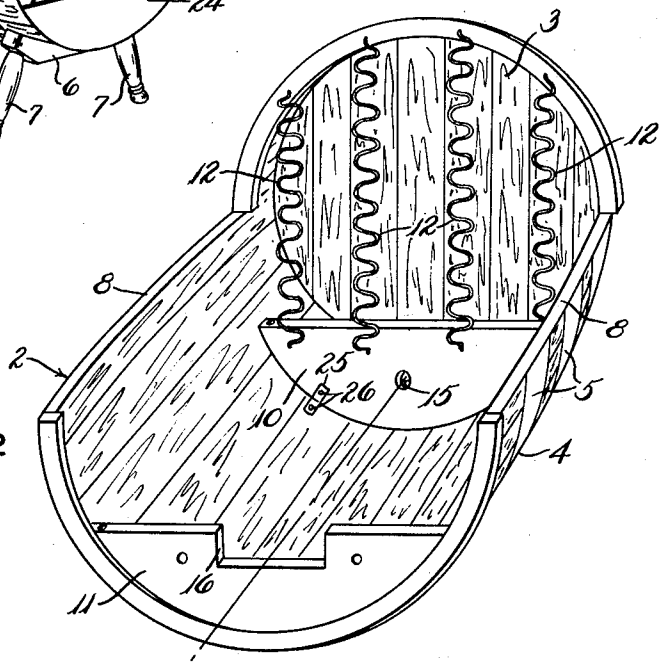
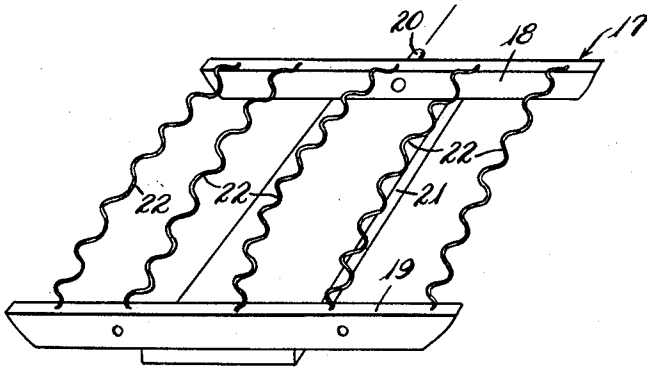


FIG. 2



INVENTOR.
CHESTER F. SARCHIA
BY
Oldham & Oldham
ATTYS.

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FIG. 3

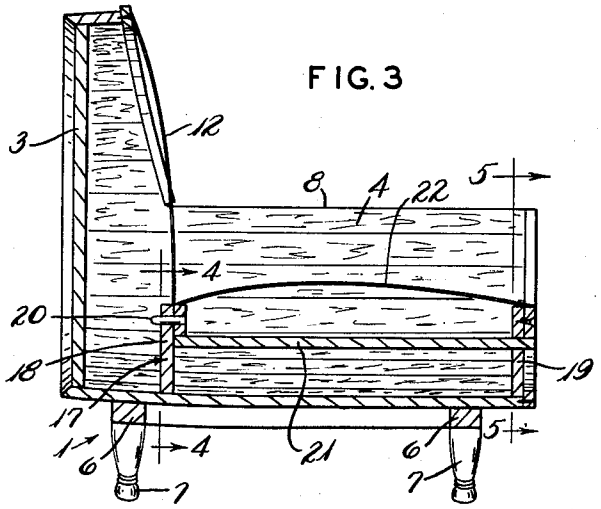
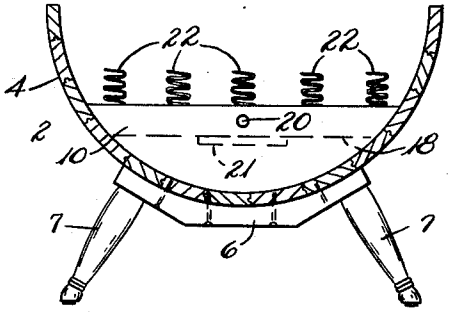


FIG. 4



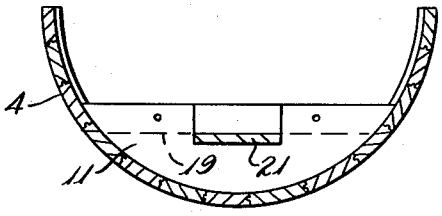


FIG. 5

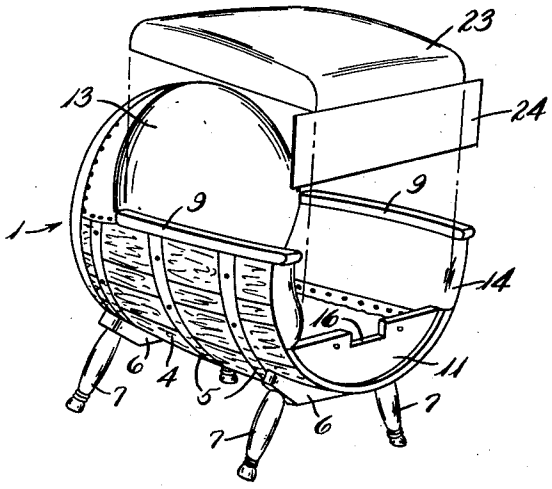


FIG. 6

INVENTOR.
CHESTER F. SARCHIA
BY
ATTYS.

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3,061,373

LOUNGE CHAIR AND CONSTRUCTION THEREOF

Chester F. Sarchia, Akron, Ohio, assignor to Furniture Manufacturing Company, Akron, Ohio, a corporation of Ohio

Filed Apr. 14, 1961, Ser. No. 103,038
4 Claims. (Cl. 297—418)

The present invention relates to lounge chairs, and in general to chairs and the construction or frame means therefor.

Heretofore there have been various types of chairs produced of many different frame constructions and shapes. When upholstering these chairs, and when assembling components of an upholstered chair, it is difficult and costly to secure the components of the chair together and have the upholstery extend smoothly and tightly over the chair components. Most of such work is done by hand, and upholstering a chair is a costly operation, as skilled workmen are required and it usually is a relatively slow operation.

The general object of the present invention is to provide a novel and improved lounge chair and chair frame characterized by the rapid and convenient assembly of different components of the chair frame including attachment of the seat frame means to the chair.

Another object of the invention is to provide a chair which is made up from two primary units, one comprising the chair frame and the other comprising a chair seat or cushion and with the chair being produced with the chair frame having all upholstery means thereon and secured in position thereto before the chair seat is fixedly secured in place and with the upholstery means on the chair seat being secured thereto and having only the front end of the upholstery not being secured tightly in position before the chair seat is affixed to the remainder of the chair.

Another object of the invention is to build a chair wherein the primary chair frame component can be a section or portion of a wooden barrel and where the chair frame is of sturdy construction and with the components thereof being adapted for preassembly insofar as the chair frame and the chair seat frame are concerned.

Another object of the invention is to secure a seat frame fixedly in a chair frame after the chair frame has been upholstered.

The foregoing and other objects and advantages of the invention will be made more apparent as the specification proceeds.

Attention now is particularly directed to the accompanying drawings, wherein:

FIG. 1 is a perspective view of a lounge chair embodying the principles of the invention and illustrating the currently preferred construction thereof;

FIG. 2 is an exploded view of the chair frame and the seat frame with the upholstery means thereon being removed and prior to assembly of the chair seat frame to the chair frame;

FIG. 3 is a vertical section taken through the chair frame and chair seat of FIG. 2 when operatively associated with each other and with the upholstery means generally being removed for clarity;

FIGS. 4 and 5 are vertical sections taken on lines 4—4 and 5—5, respectively, of FIG. 3; and

FIG. 6 is a perspective view of the chair seat and chair in exploded relation and ready for attachment together.

When referring to corresponding members shown in the drawings and referred to in the specification, corresponding numerals are used to facilitate comparison therebetween.

The present invention, generally speaking, relates to a

novel type of a chair and chair frame where the chair frame has back, seat and arm portions, a pair of cross members are secured to the seat portion of the chair frame and extends transversely thereof in spaced relation, one of the cross members being positioned adjacent the back of the frame and having a recess extending thereinto from the front surface thereof, the second of the cross members being at the front of the seat portion, and a seat frame engaging the cross members and extending therebetween to be positioned thereby, which seat frame includes a rearwardly extending centering member engaging the said recess, and with the seat frame including cross bars engaging a part of the chair frame seat to be positioned thereby.

The chair of the invention is shown in detail in the accompanying drawings, and the chair as a whole is indicated by the numeral 1. This new chair 1, as one feature of the invention, can be made with a chair frame 2 in the form or shape of an end 3 and a longitudinally extending section 4 made from a barrel. FIG. 1 of the drawings indicates how a plurality of metal straps 5 may be provided on this barrel member used in forming the chair frame 2. Naturally the barrel would be suitably cleaned, waxed, varnished, or otherwise finished, so as to provide an attractive surface on the chair.

Suitable support legs are provided for the chair 1 and they are shown as comprising generally U-shaped bars or members 6 that extend transversely of the chair frame 2 at spaced portions thereof and are secured thereto. Suitable legs 7 can be secured to the bars 6 adjacent the ends thereof and diverge outwardly to provide a sturdy support for the chair 1 of the invention.

The longitudinal section 4 of the chair frame 2 is of arcuate shape in section and the upper parts of this section 4 form arm portions 8 in the chair frame, while the base part of this section of the chair frame would form the seat portion for the chair frame. Any suitable members, such as bars or boards 9 are secured to the upper ends of the longitudinal section 4 of the chair frame and they may protrude transversely and axially therefrom to provide arm rests on the finished chair.

Various figures of the drawings, such as FIG. 2, bring out the fact that a pair of cross members 10 and 11 are secured to the longitudinally extending sections 4 of the chair frame with one cross member 10 being positioned adjacent the back or end 3 of the chair frame and with the other cross member 11 normally being positioned flush with the front end of the chair frame 2. Suitable spring members 12 are shown positioned on and secured between the upper portion of the cross member 10 and extending therefrom to the upper portion of the chair back or end 3 of the chair frame. Any suitable padding and/or upholstery means 13 can be secured over these springs 12 and be suitably attached to the proper portions of the chair frame 2 to provide a smooth finished upholstery assembly.

It is a feature of the invention that the bars or arm rests 9 and any desired upholstery means 14 covering the arm portions 8 of the chair frame will be secured thereto, and that the back or end portions 3 of the chair frame will be completely finished prior to positioning the chair seat or any components thereof in the chair 1.

FIG. 2 of the drawings best brings out the fact that a recess, or a bore 15 is provided in the cross member 10 and extends therethrough parallel to the axis of the chair 1, and preferably the front cross member 11 has a recess 16 provided at this upper surface. These means formed on the cross members 10 and 11 facilitate the engagement of a frame 17 with the remainder of the chair frame 2. The seat frame 17 is shown as made from a pair of cross bars 18 and 19 shaped to bridge across the longitudinal section 4 of the chair frame and engage there-

with at the ends of the cross bars for support action, whereas the seat frame **17** is also positioned in the chair frame by means such as a longitudinally extending pin or dowel **20** that is secured to the cross bar **18** and extends rearwardly therefrom for engaging the bore **15** when the seat frame **17** is in its final assembly position on the chair frame **2**. Likewise, the seat frame **17** includes a longitudinally extending member or brace **21**, which brace **21** is contoured to be seated in the recess **16** in the center or front cross member **11** to aid in affixing the seat frame **17** securely to the remainder of the chair frame. Any desired type of springs **22** are secured to the seat frame **17** and suitable upholstery means **23** can be affixed over these springs **22** and be attached to the seat frame **17** in the rear or back and side portions thereof prior to positioning the seat frame onto the remainder of the chair frame **2**, as indicated in FIG. 6.

FIG. 6 also best shows that the chair upholstery **23** may have a front flap **24** extending downwardly therefrom when the seat frame **17** is assembled to the chair frame **2**. Hence, the only operation required in completing the chair **1** after positioning the seat frame **17** therein, is to suitably secure this front flap **24** to the chair frame **2**, such as to the front cross member **11** therein.

It should be realized that the cross members **10** and **11** can be secured to the chair frame **2** in any desired manner, as by the use of little brackets **25**, and/or by screws **26** extending through the cross members and engaging the longitudinal section **4** of the chair frame.

It should further be realized that the chair frame **2** may be made of other shapes than that shown herein, but the use of a section of a barrel is particularly suitable as it provides a sturdy frame to which the components of the chair can be readily assembled or secured.

In view of the foregoing, it is believed that a novel and improved chair and method or type of chair assembly has been provided by the invention. The various types of cross members used on the chair frame and in the seat frame for the chair can be varied in accordance with the style, size and type of a chair frame provided. The seat frame **17** naturally can be secured as by cap screws, or other means, to the cross member **11** in the seat frame, or it can be positioned solely by the upholstery means, dowel **20** and member **21**, as desired. Hence it is believed that the objects of the invention have been achieved.

While one complete embodiment of the invention has been disclosed herein, it will be appreciated that modification of this particular embodiment of the invention may be resorted to without departing from the scope of the invention as defined in the appended claims.

What is claimed is:

1. In a chair, a chair frame having seat, back and arm portions,
a pair of cross members secured to said seat and extending transversely thereof in spaced relation,
one of said cross members being positioned adjacent said back of said frame and having a hole extending therethrough from front to rear of the chair,
the second of said cross members being at the front of said seat portion and having a recess in its upper edge, and
a unitary seat frame engaging said cross members and extending therebetween to be positioned thereby,
said seat frame including a rearwardly extending centering pin engaging said hole, and
a downwardly projecting frame member seating in said recess to aid in centering and positioning said seat frame on said chair frame,
said seat frame also comprising cross bars having end portions that engage said chair frame seat to be positioned thereby.

2. In a chair,

a chair frame in the shape of an end and a longitudinal section of a barrel and having seat, back and arm portions,
the barrel having a transversely arcuate shape in section in the seat portion of said chair frame,
a pair of cross members secured to said seat portion and extending transversely thereof in spaced relation on the inner surface of said barrel,
one of said cross members being positioned adjacent but spaced from said back of said frame and having a hole extending therethrough parallel to the center axis of the chair,
spring means extending between said one cross member and the upper end of said chair frame back,
the second of said cross members being at the front of said seat portion and being within and flush with the end of said chair seat portion, and
a unitary seat frame engaging said cross members and extending therebetween to be centered thereon,
said seat frame including a rearwardly extending centering pin engaging said hole,
spring means secured to the seat frame and extending upwardly therefrom, and
cross bars contoured complementary to and each engaging arcuate surfaces of said chair frame seat to position said seat frame thereby.

3. In a chair,
a chair frame in the shape of an end and a longitudinal section of a barrel and having seat, back and arm portions,
a pair of vertically extending cross members secured to said seat portion and extending transversely thereof in spaced relation on the inner surface of said barrel,
one of said cross members being positioned adjacent said back of said frame and having an aperture extending thereto from front to rear of the chair in its front face,
spring means extending between said one cross member and the upper end of said chair frame back to receive upholstery means thereon, and
a seat frame engaging said cross members and extending therebetween to be positioned thereby,
said aperture being vertically lower than any portion of said spring means,
said seat frame including a rearwardly extending centering member engaging said aperture to aid in securing said seat frame in position.

4. In a chair,
a chair frame in the shape of an end and a longitudinal section of a barrel and having arcuate seat, a flat back and arcuate in vertical section arm portions,
a pair of cross members secured to said seat portion and extending transversely thereof in spaced relation on the inner surface of said barrel,
one of said cross members being positioned adjacent said back of said frame and having a recess extending thereinto from the front thereof,
the second of said cross members being at the front of said seat portion and being within and substantially flush with the end of said chair seat portion, and
a unitary seat frame engaging said cross members and extending therebetween to be positioned thereby,
said seat frame including a rearwardly extending centering means engaging said recess, and
cross bars having portions thereof arcuately contoured for engaging said chair frame seat to be positioned thereby.

References Cited in the file of this patent

UNITED STATES PATENTS

2,705,995 McMurty ---------- Apr. 12, 1955

UNITED STATES PATENT OFFICE

CERTIFICATE OF CORRECTION

atent No. 3,061,373 October 30, 1962

Chester F. Sarchia

It is hereby certified that error appears in the above numbered patent requiring correction and that the said Letters Patent should read as corrected below.

In the grant, lines 2 and 12, and in the heading to the printed specification, lines 3 and 4, name of assignee, for "Furniture Manufacturing Company", each occurrence, read -- San Hygene Furniture Manufacturing Company --; column 4, list of references cited, add the following:

2,364,452	Kramer	Dec. 5, 1944
D.161,762	Kaufman	Jan. 30, 1951

OTHER REFERENCES

"Building a Barrel Chair" (Article), Popular Science Magazine, Oct. 1938, Pages 180 and 181.

Signed and sealed this 11th day of June 1963.

(SEAL)
Attest:
ERNEST W. SWIDER
Attesting Officer

DAVID L. LADD
Commissioner of Patents