

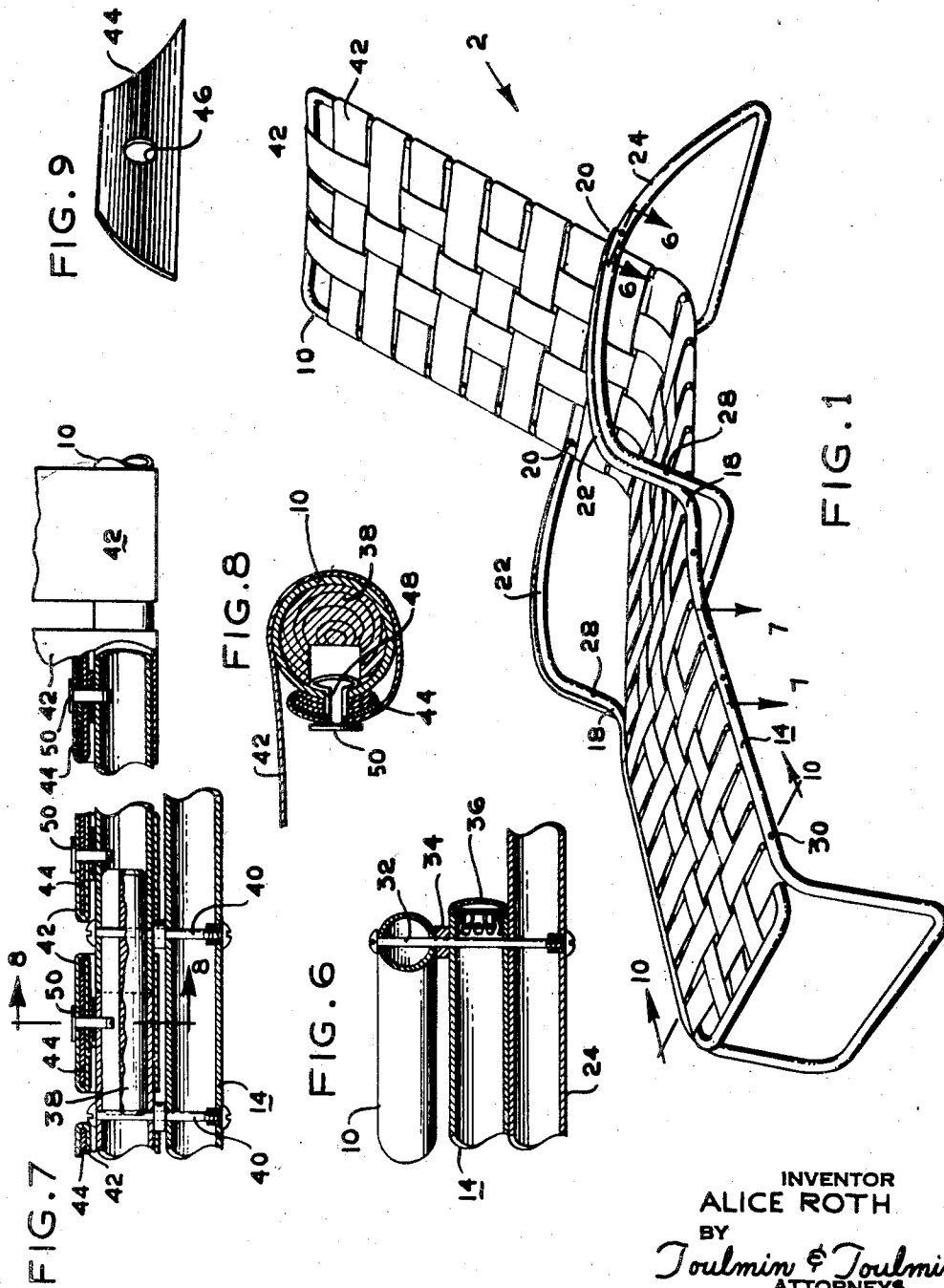
Nov. 23, 1948.

A. ROTH
LOUNGE CHAIR

2,454,408

Filed Dec. 26, 1946

3 Sheets-Sheet 1



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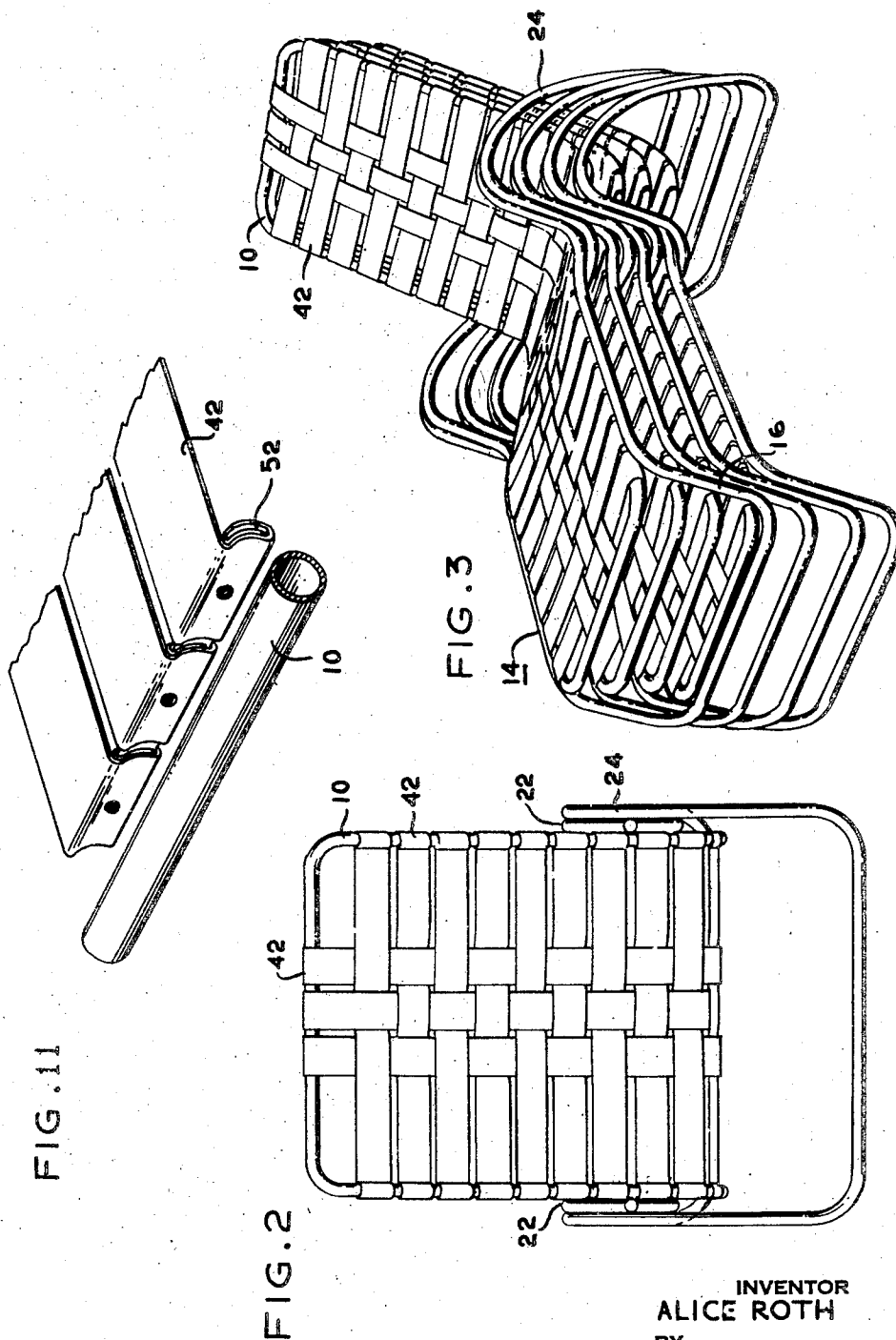
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FIG. 10

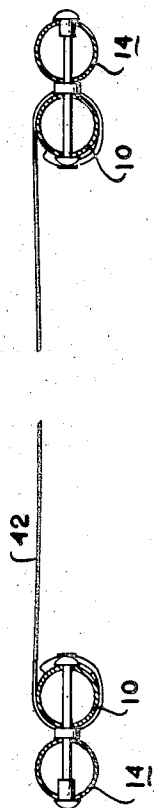


FIG. 4

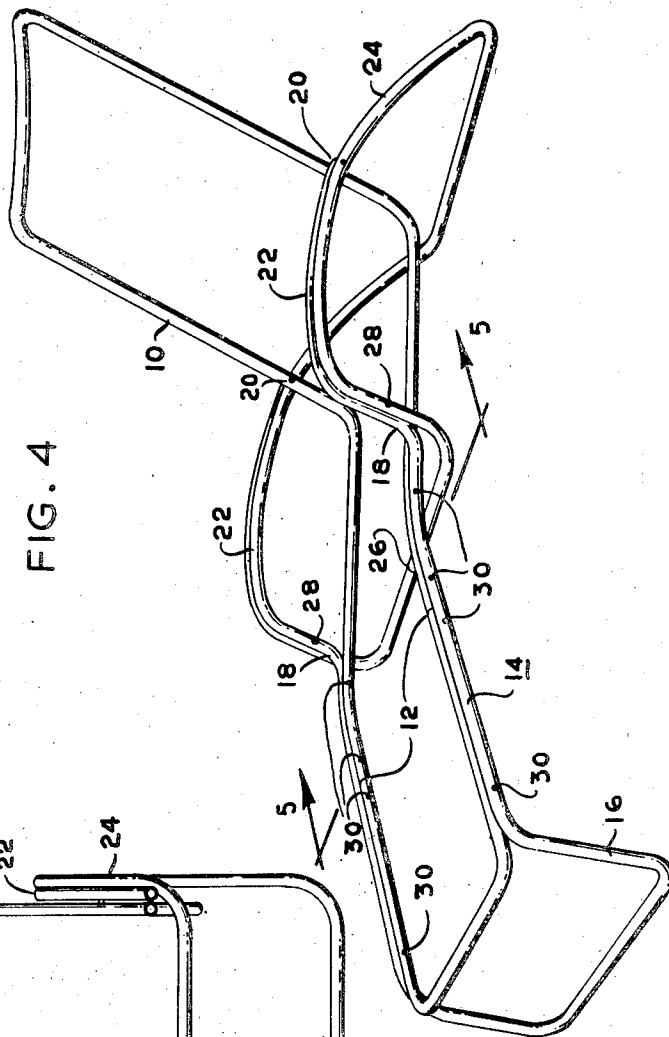
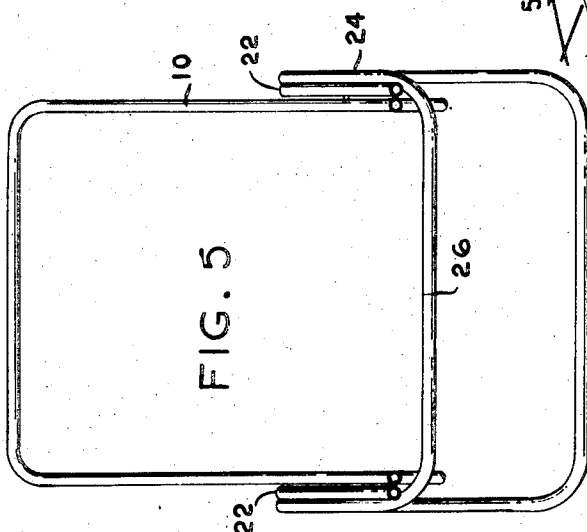


FIG. 5



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UNITED STATES PATENT OFFICE

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LOUNGE CHAIR

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7 Claims. (Cl. 155—1)

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This invention relates to articles of furniture such as chairs, lounges, etc., especially designed for use as lawn or porch furniture.

The particular object of the present invention is to provide an article of furniture of the above mentioned type which is simple and inexpensive to manufacture but which is of strong construction and which has long life.

Still another object is to provide an article of furniture having a frame constructed of several relatively simply shaped parts so that the parts can readily be surface finished before final assembly.

Another object of this invention is to provide articles of furniture such as chairs or lounges adapted for being stacked together in a minimum of space.

A particular object of this invention is to construct an article of furniture such as a chaise lounge in which the frame is constructed of tubing and of several parts, each part being of such a size that it can be plated or otherwise electrolytically treated in standard processing equipment.

These and other objects and advantages will become more apparent upon reference to the following description taken in connection with the accompanying drawings, in which:

Figure 1 is a perspective view of a chaise lounge constructed according to this invention;

Figure 2 is a rear view of the lounge looking in the direction of the arrow 2 on Figure 1;

Figure 3 is a perspective view showing several of the lounges stacked together;

Figure 4 is a perspective view similar to Figure 1 but with the webbing removed from the chair frame;

Figure 5 is a transverse section indicated by the line 5—5 on Figure 4 and showing more in detail the assembly of the lounge frame;

Figure 6 is a sectional view indicated by the line 6—6 on Figure 1 and showing one of the joints by which the frame parts are connected together;

Figure 7 is a plan section indicated by the line 7—7 on Figure 1 and showing one of the frame connections and the connections of the webbing strips to one of the frame members;

Figure 8 is a transverse section indicated by the line 8—8 on Figure 7 and showing more in detail the connection of the webbing to the frame member;

Figure 9 is a perspective view showing a supporting clip employed in connection with the ends of the webbing;

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Figure 10 is a transverse section indicated by the line 10—10 on Figure 1; and

Figure 11 is a perspective view showing the manner of attaching the webbing strips to the front rail of the lounge.

A lounge according to this invention comprises a frame construction of several members, preferably tubing, and a plurality of strips of interwoven webs. The ends of the strips of webbing are adapted for being connected with the frame members and are preferably prefabricated to the proper lengths and are placed on the frame members when the lounge is finally assembled.

Referring to Figures 1, 2, 4 and 5, it will be seen that the lounge frame consists of a substantially L-shaped portion indicated at 10 which forms the back and seat part of the chair and which is formed by securing a pair of substantially U-shaped tubular members together as by the joints indicated at 12 in Figure 4.

Extending along the sides of the seat portion is a second tubular member 14 which is turned down at the end as at 16 to provide the front leg or support for the assembled lounge. The member 14 turns upwardly as at 18 and curves backwardly to be connected with the upright part of the frame portion 10 as at 20 and thereby provides the arm parts 22.

A third frame portion 24 is also connected with the frame portion 10 at 26 and extends backwardly and downwardly therefrom to form the rear leg or support for the assembled lounge. The member 24 also extends forwardly and parallel with the arm part 22 of the frame member 14 to give greater width to the said arm part. At the forward end of the arm part the member 24 turns downwardly and then extends across the underneath part of the lounge to be connected with the corresponding end of the member 24 as at 28. The members 14 and 24 are interconnected as at 28 while the member 14 and the frame portion 10 are interconnected as by the bolts or rivets indicated at 30. The resulting structure is light and rigid and each of the several parts thereof is of such a shape that it can readily be formed by bending tubing around a proper die or mandrel and, furthermore, the said parts are of such a size that they can readily be surface finished in standard processing apparatus such as an electroplating machine.

The connection at 28 is better illustrated in Figure 6 wherein it will be seen that the frame members 10, 14 and 24 are traversed by a bolt 32 and that there is preferably a spacer member 34 which lies between the members 10 and 14,

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For the sake of appearance, the end of the member 14 has placed therein the spring cap 36.

The joint 12 between the two parts of the frame member 10 together with the adjacent connections 30 between the members 10 and 14 are best seen in Figure 7. In Figure 7 it will be observed that a wooden rod 38 is inserted in the ends of the two parts of the member 10 and that the bolts 40 which pass through the members 10 and 14 also pass through the wooden rod 38 to secure it in position. Thus, a single means is operable for securing the two parts of the member 10 together as well as for securing the member 10 and the member 14 together.

The strips of webbing, which are indicated at 42, are a fabric preferably formed of a strong water-resistant synthetic material such as nylon and are prefabricated by having their ends secured to metallic clips, such as that illustrated at 44 in Figure 9. The particular manner of securing the fabric to the clip is not essential to the present invention but comprises wrapping or folding the end of the webbing over the clip and hot piercing the fabric so that it welds through the aperture 46 in the clip and thus integrally unites the clip and webbing.

The strips of webbing having the supporting clips on the ends thereof and then secured to the frame of the lounge as indicated in Figures 7, 8, 10 and 11. In Figure 8 it will be observed that the webbing 42 is passed around the frame member 10 and that the said member is apertured as at 48 to receive a rivet 50 which also passes through a hole in the clip 44. This gives substantially 270° of wrap of the fabric around the frame member and provides a strong support which prevents the webbing strips from coming loose.

At the foot of the lounge, the strips of webbing are secured to the inside of the frame to prevent undue abrasion of the strips. In making the connection at the foot of the lounge the webbing is preferably wrapped around a bar 52 which is then secured to the end of the frame member 10 in the same manner as the transverse strips are connected.

Due to the construction of the lounge frames, the lounges may be nested together as shown in Figure 3 so that a number thereof can be stacked in a minimum of space. It will be observed in Figure 3 that the stacked lounges nest together so the load is carried by the frame parts thereof and so that the overlapping parts prevent the stacked articles from slipping apart.

It will be understood that this invention is susceptible to modification in order to adapt it to different usages and conditions and, accordingly, it is desired to comprehend such modifications within this invention as may fall within the scope of the appended claims.

I claim:

1. In a chaise lounge or the like; a frame portion comprising a horizontal bottom part and a rearwardly inclined back part; a first member extending down from the front of said bottom part to form a front support and lying along and secured to the sides of said bottom part, the other end of said first member extending upwardly and then rearwardly to form arms for the lounge; and a second member lying along and secured to the sides of said arms and extending downwardly and rearwardly therefrom to form a rear support.

2. In a chaise lounge or the like; a frame portion comprising a horizontal bottom part and a

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rearwardly inclined back part; a first member extending down from the front of said bottom part to form a front support and lying along and secured to the sides of said bottom part, the other end of said first member extending upwardly and then rearwardly to form arms for the lounge; and a second member lying along and secured to the sides of said arms and extending downwardly and rearwardly therefrom to form a rear support, said front and rear supports and the front of said arms being inclined to nest over the corresponding parts of another lounge.

3. In a chaise lounge or the like; a frame portion comprising a horizontal bottom part and a rearwardly inclined back part; a first member extending down from the front of said bottom part to form a front support and lying along and secured to the sides of said bottom part, the other end of said first member extending upwardly and then rearwardly to form arms for the lounge; and a second member lying along and secured to the sides of said arms and extending downwardly and rearwardly therefrom to form a rear support, said front and rear supports and the front of said arms being inclined to nest over the corresponding part of another lounge; and a plurality of strips of interlaced webbing carried by said frame portion and secured thereto.

4. In a chaise lounge or the like; a frame portion comprising a horizontal bottom part and a rearwardly inclined back part; a first member extending down from the front of said bottom part to form a front support and lying along and secured to the sides of said bottom part, the other end of said first member extending upwardly and then rearwardly to form arms for the lounge and being secured to the back part; and a second member lying along and secured to the sides of said arms and extending downwardly and rearwardly therefrom to form a rear support, the ends of said second member at the forward ends of said arms extending across beneath said bottom part and being secured together.

5. In a chaise lounge or the like; a frame portion comprising a horizontal bottom portion and a shorter back portion inclined upwardly and rearwardly from one end of said bottom portion; a plurality of strips of interlaced webbing extending from side to side and end to end of said frame portion to form bottom and back coverings; and leg and arm means for said lounge comprising a first tubular member lying along the sides of said bottom part and being bent down at the front end thereof to form legs and being bent upwardly and then rearwardly at the rear end thereof to form arms, and a second tubular member lying along the sides of said arms and being bent down at the rear thereof to form legs and being bent together beneath said frame portion at the front of said arms, said members being continuous between the ends of the legs formed thereby.

6. In a chaise lounge; a relatively long bottom part; a shorter back part inclined rearwardly from one end of said bottom part; and leg means forming front and back legs and arm means for said lounge comprising tubular members secured together and to the side edges of said bottom and back, and forming a generally upwardly concave structure along each side of the lounge whereby a plurality of the lounges can be nested together for stacking, the lower ends of the front and back legs formed by said members being respectively connected.

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7. In a chaise lounge; a relatively long bottom part; a shorter back part inclined rearwardly from one end of said bottom part; leg means forming front and back legs and arm means for said lounge comprising tubular members secured together and to the side edges of said bottom and back, and forming a generally upwardly concave structure along each side of the lounge whereby a plurality of the lounges can be nested together for stacking, the lower ends of the front and back legs formed by said members being respectively connected; and a transverse brace extending transversely beneath the said bottom part and secured at each end to one of said arms.

ALICE ROTH.

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