April 21, 1936. R. O. STOCKIL 2,037,945

FOLDABLE AND RECLINING CHAIR

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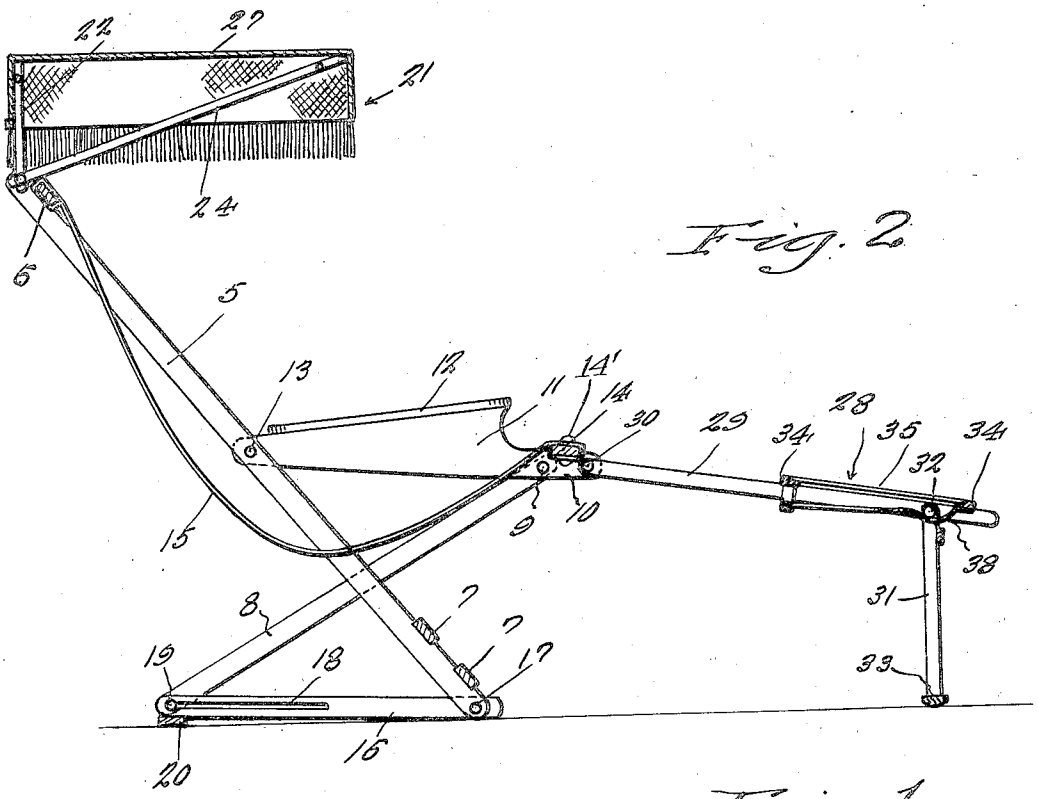


Fig. 2.

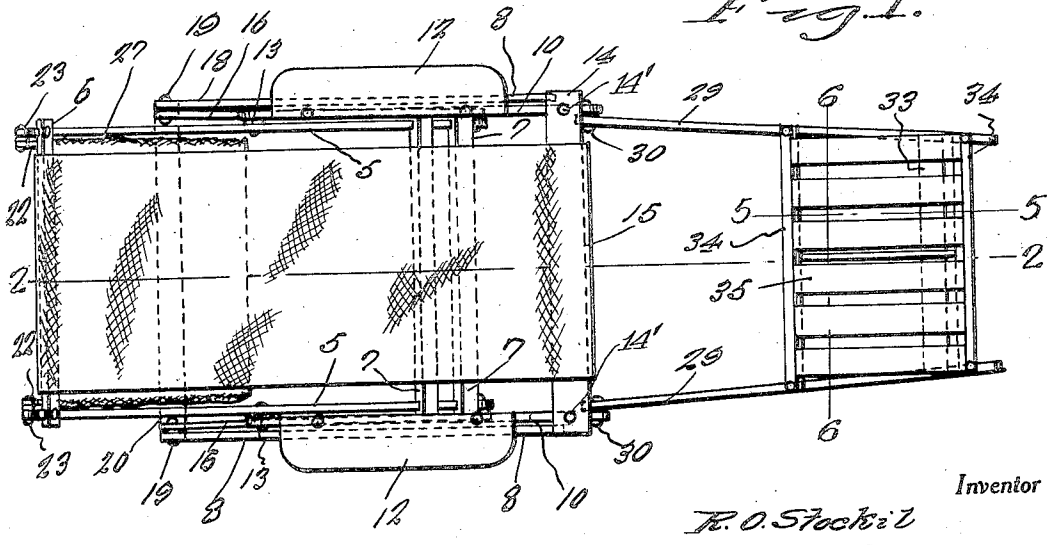


Fig. 1.

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Fig. 3.

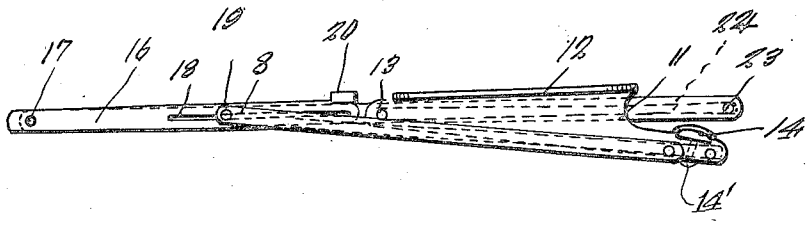


Fig. 7.

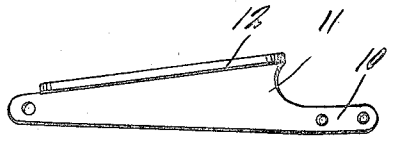


Fig. 4.

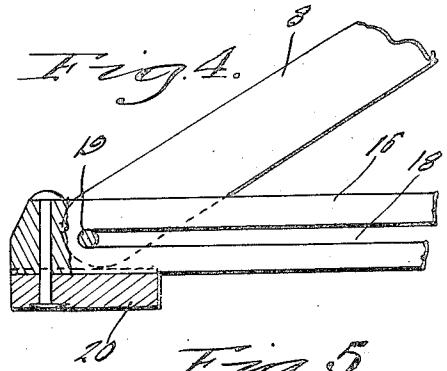


Fig. 5.

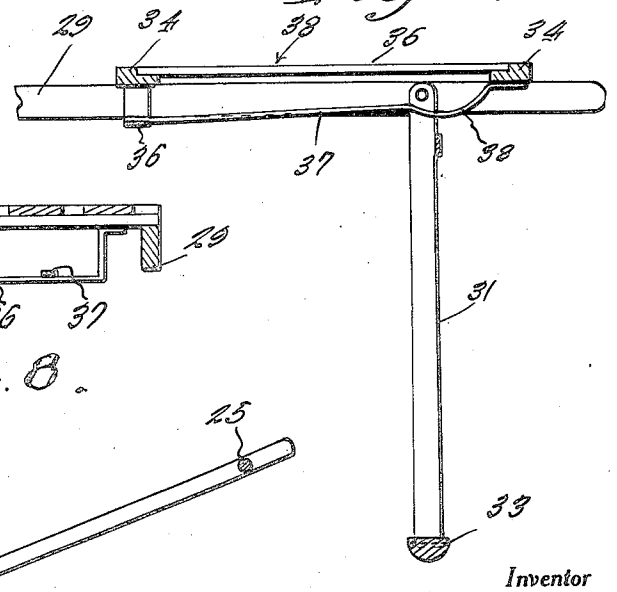


Fig. 6.

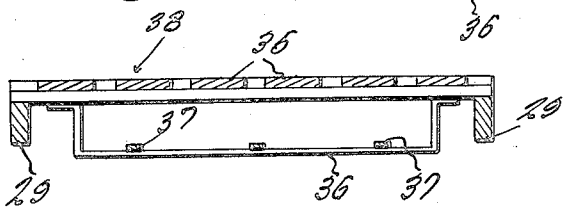
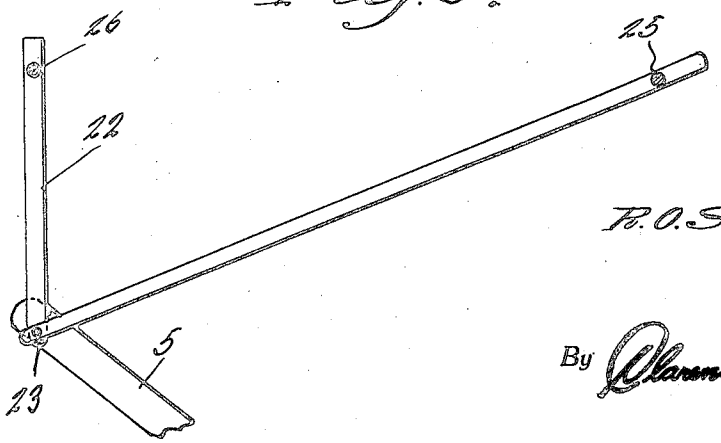


Fig. 8.



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UNITED STATES PATENT OFFICE

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FOLDABLE AND RECLINING CHAIR

Raymond O. Stockil, Takoma Park, Md.

Application January 4, 1932, Serial No. 584,690

3 Claims. (Cl. 155—56)

This invention relates to new and useful improvements in chairs and seats, and more particularly to a novel chair of the usual flexible seat and back construction.

The principal object of this invention is to provide a seat of the reclining type, which while affording a support for the legs and feet, nevertheless permits folding into a compact and easily handled unit.

Another important object of the invention is to provide a foldable seat of the character mentioned which will permit execution of the rocking action throughout, without any noticeable effort on the part of the occupant.

Other objects reside in the provision of a canopy, magazine rack, and comfortable conveniences constructed particularly to conform with the human anatomy.

In the drawings:—

Fig. 1 represents a top plan view of a chair constructed in accordance with an embodiment of my invention and in operative position.

Fig. 2 represents an enlarged vertical sectional view longitudinally through the extended chair.

Fig. 3 represents a side elevational view of the chair in collapsed position.

Fig. 4 represents an enlarged fragmentary detailed sectional view of the pin and slot connection.

Fig. 5 represents a fragmentary detail sectional view taken substantially on line 8—8 of Fig. 1.

Fig. 6 represents a cross sectional view taken substantially on the line 9—9 of Fig. 1.

Fig. 7 represents a side elevational view of the novel arm rest.

Fig. 8 represents a fragmentary detailed sectional view through the framework of the canopy.

Referring to the drawings wherein like numerals designate like parts, it can be seen that the chair includes a pair of elongated posts 5—5, connected at their upper end portions by the bar 6, and at their lower end portions by the slats 7—7. Props 8—8 cross corresponding posts 5—5 and each prop 8 is secured pivotally as at 9 to its corresponding portion of the projection or arm extension 10 inwardly of the free end of the latter, said extension projecting from the arm rest 11, and each of these arm rests is provided with a flat top piece 12. It can be observed in Fig. 2, that the arm rest 11 tapers rearwardly at which point it is pivotally connected as at 13 to the intermediate portion of the corresponding post 5. Secured to the intermediate portion of each projection or arm extension 10 is the corresponding end of the cross bar 14 to which the lower end of the flexible back or sheet 15 is secured. The upper end of the sheet 15 is secured to the aforementioned bar 6.

A pair of links or sills 16—16 are provided between the adjacent lower ends of the posts 5 and props 8, the forward end of each link or sill 16 beng pivotally connected to the lower end of the corresponding post 5 as at 17, while its opposite end portion is provided with a longitudinally extending slot 18, for receiving a laterally projecting pin 19 on the corresponding prop 8.

Numeral 20 represents a ground engaging bar which is secured at its end to the rear ends of the links or sills 16. Numeral 21 generally refers to a canopy, and as shown in Fig. 8, this canopy includes a pair of upright members 22—22, each pivotally secured at its inner end by a pin 23 to the upper end of the corresponding post 5. Extending from each of the pins 23 is an elongated rod 24 which extends over the seat portion of the chair. The rods 24 are connected at their upper ends by a member 25, while the uppper ends of the members 22 are connected by a member 26. Thus two frames are supported upon the upper ends of the posts 5 and over this the canopy 27 of suitable fabric construction can be assembled.

Numeral 28 generally refers to a leg and foot rest which is rockable with the chair proper. This leg rest includes a pair of elongated bars 29—29, each pivotally connected at its rear end as at 30 to the forward end of the corresponding protuberance 10 on one of the arm rests 11.

The forward end portion of each bar 29 is supported by an upright 31, which is pivotally secured at its upper end to the bar as at 32 so that the bars 29 can move with the rocking action of the chair without the upright 31 shifting on the ground. The lower ends of these uprights 31 are secured to a ground engaging rocker 33, the same being in construction, a bar curved transversely thruout its entire length, so that when the chair is rocked, the bars 29—29 will travel with the same and while the rocker 33 will remain in a fixed position upon the ground, it will nevertheless rock and give to the motion of the bars and chair proper.

As is clearly shown in Fig. 2, and in Fig. 5, a magazine rack is provided beneath the foot rest. The foot rest consists of a pair of members 34 bridging the bars 29—29 and connected by equally spaced slats 35. The magazine rack includes a U-shaped member 36 secured at its upper end to the rearward bridge piece 34 and extending forwardly from this member 36 are the strips 37 of spring metal, which are curved as at 38,

at their forward ends, at which point, they are connected to the forward bridge piece **34**.

As is particularly illustrated in the accompanying drawings, the cross bar **14** is of decided width and presents a substantially flat top face which in cross section is substantially parallel with the longitudinal axes of the arm rests **11**. Furthermore, it is to be noted that the cross bar **14** is secured to the extension arms **14** forwardly of the pivotal connections **9** between the arm rests **11** and the props **8**. It is also to be noted that the members **14'** connecting the extremities of the cross bar **14** to the extension arms **10** extend through said arms between the pivotal mountings **9** and **30**. These members **14'** carry heads at their opposite ends contacting from above with the cross bar **14** and from below with the extension arms **10** whereby said extension arms are effectively reinforced or strengthened to resist the loads imposed upon the arms **10** at the pivotal connection **9** and **30**.

The particular location of the bar **14** provides a chair structure wherein the liability of the structure tilting backwards is substantially eliminated which is due to the fact that a considerable portion of the weight imposed by the occupant upon the sheet or flexible back **15** is upon the cross bar **14** which is arranged in advance of the pivotal connections **9**. By having the cross bar **14** provided with a materially broad or wide upper face disposed in cross section substantially parallel with the longitudinal axes of the arm rests **11** materially increases comfort to the occupant of the seat and more especially to the limbs of the person.

It can now be seen, that because of the provision of the projections or arm extensions **10** on the arm rest **11**, greater comfort will be available to the occupants because of the absence of the sharp edges of slats, which heretofore have been secured to the props **8** at their upper ends, and over which the sheet **15** has been secured at its lower end. Obviously, this discomfort has been removed by the disposition of this bar **14** on the horizontal plane, or on a plane substantially beyond the plane of the leg rest **28**.

It can be seen, that by disposing the upright **31** backwardly against the bars **29—29** and then tilting the props **8—8** rearwardly so that the arm rest **11** will be thrown upwardly, the leg rests and magazine rack, can be disposed under the seat so as to rest upon the upper slat **7**.

In folding the chair, the arm rest **11** will go upwardly against the post **5**, while the props **8—8** follow and assume a position almost parallel with respect to the post. This disposition of the props **8** is acquired principally by the pin and slot means in the lower ends of the props and the links **16** which are interposed between the lower ends of the posts and the aforementioned props.

While the foregoing specification sets forth the invention in specific terms, it is to be understood that numerous changes in the shape, size and materials may be resorted to without departing from the spirit and scope of the invention as claimed hereinafter.

Having thus described my invention, what I claim as new is:

1. A magazine holder comprising a substantially horizontal support, a plurality of leaf springs each secured at one end to the support, means for spacing the remaining ends of the leaf springs from the support, said leaf springs gradually converging toward the support in a direction toward the secured ends thereof.

2. A folding rocking chair comprising spaced parallel sills, posts and props arranged in crossed relation, the posts having their lower ends pivotally connected with the forward ends of the sills, and the props having their lower ends pivotally connected with the rearward ends of the sills, arm rests interposed between and pivotally connected to the upper ends of the props and intermediate portions of the posts, said arm rests increasing in height from their connections with the posts to a point adjacent their outer ends where their upper edges are abruptly reduced to form extensions which terminate beyond their pivotal connections with the props, a cross bar secured to and bridging the extensions at a point beyond the pivotal connections of the props and extensions, and a flexible seat and back secured to the cross bar and the upper ends of the posts.

3. A folding chair comprising spaced parallel sills, posts and props arranged in crossed relation, the posts having their lower ends pivotally connected with the forward ends of the sills, and the props having their lower ends pivotally connected with the rearward ends of the sills, arm rests interposed between and pivotally connected to the upper ends of the props and intermediate portions of the posts, said arm rests having integrally formed extensions which terminate beyond their pivotal connections with the props, a cross bar secured to and bridging the extensions at a point beyond the pivotal connections of the props and extensions, and a flexible seat and back secured to the cross bar and the upper ends of the posts, said pivotal connections of the props and extensions normally being in advance of the pivotal connections of the lower ends of the posts and sills thus tending to prevent rearward capsizing of the chair when occupied.

RAYMOND O. STOCKIL.