Nov. 22, 1955 E. M. GARNER 2,724,430

FOLDING CHAIR

Filed Oct. 19, 1953

Fig. 1

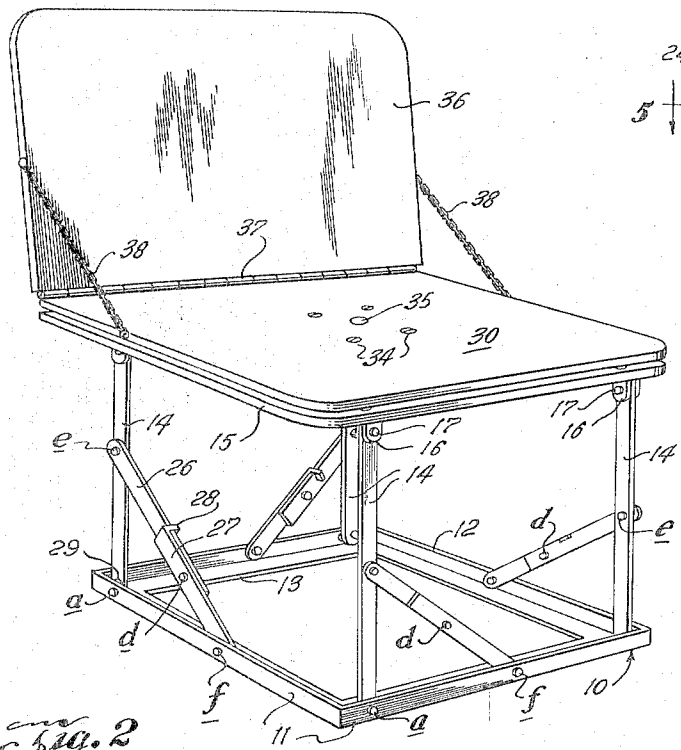


Fig. 4

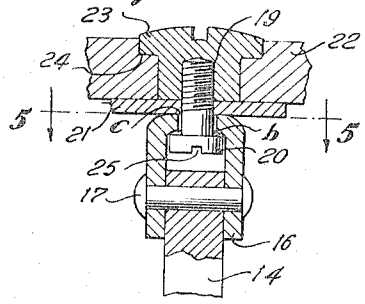


Fig. 5

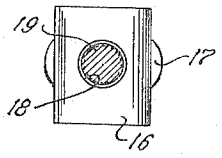


Fig. 2

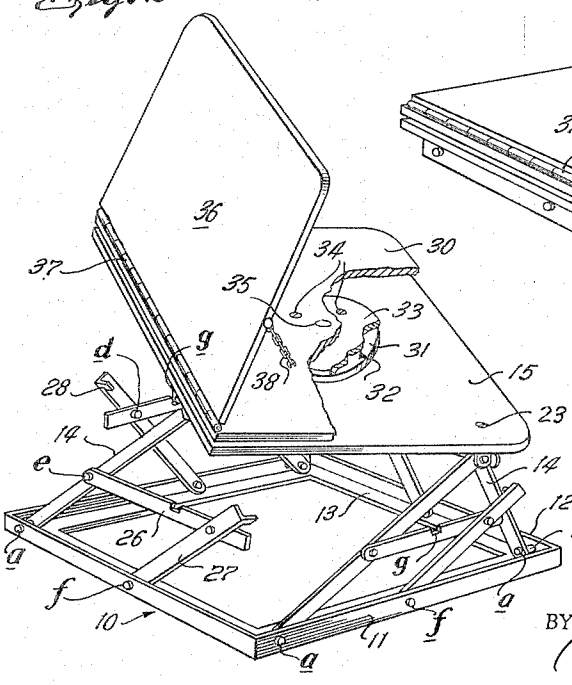
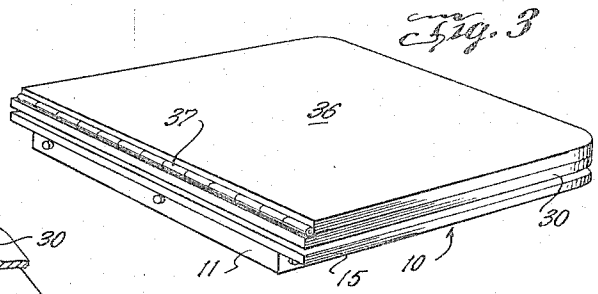


Fig. 3



EWELL M. GARNER
INVENTOR

BY

ATTORNEY

United States Patent Office 2,724,430 Patented Nov. 22, 1955

2,724,430

FOLDING CHAIR

Ewell M. Garner, Dallas, Tex.

Application October 19, 1953, Serial No. 386,724

5 Claims. (Cl. 155—148)

This invention relates to chairs or stools and more particularly to collapsible or folding chairs.

The principal object of the invention is to provide a collapsible chair especially useful to fishermen since its design and construction is such that it may be conveniently adapted to the seat of a fishing boat and clamped thereto to lend comfort to one fishing from the boat and, by virtue of the elements by which the chair may be quickly collapsed, it can still be used as a comfortable seat but at a lower height. Moreover, provision is made to enable the seat to revolve so that a fisherman may follow the movements of his catch in the water without turning in the chair, supported by a back rest hinged to the revolvable part of the chair and which is foldable onto the said revolvable part when not in use.

Another object of the invention is to provide a foldable chair for any purpose having a substantially square base, a seat portion, a revolvable member on the seat portion, a hinged back rest, a series of supporting legs, each pivoted to and foldable into parallelism within a side of the base and connected by swivel means to the seat portion in such manner that the seat portion rotates 90° during its movement into and out of folded position in relation to the base, in which position the seat portion is in juxtaposed parallelism with the base.

Other objects will appear as the description proceeds when considered with the annexed drawing, wherein:

Figure 1 is a front perspective view of a folding chair constructed according to the invention.

Figure 2 is a perspective view showing the chair in partly folded position.

Figure 3 is a perspective view of the chair in fully collapsed position.

Figure 4 is a fragmentary sectional view showing the swivel connection between the seat portion and one of the legs of the chair, and

Figure 5 is a sectional view taken on line 5—5 of Figure 4.

Continuing with a more detailed description of the drawing, reference numeral **10** denotes a base consisting of four side members **11**, each having a vertical flange **12** and a horizontal flange **13**. To the vertical flange **12** of each side member **11** adjacent a corner of the base **10** is pivoted a leg member **14**. The leg members **14** are slightly shorter in length than the respective side members and the pivot points *a* of the legs are set inwardly from the corners of the base so that the legs will lie within the confines of the base in folded position of the chair.

The upper end of each leg is connected to a seat or seat mounting **15** adjacent a corner thereof by means of a swivel such as shown in Figure 4 in detail. This swivel consists of an inverted U-shaped member or clevis **16** between the legs of which is pivoted, by means of a pin **17**, the upper end of a leg **14**. The bight of the clevis **16** is provided with an aperture **18** through which extends a screw **19** having a head **20** whose shoulder *b* bears against the underside of the bight of the clevis.

A second annular shoulder *c* on the screw bears against a washer **21** which rests flush against the undersurface of the seat mounting **15**. The seat mounting is apertured to receive an internally threaded member **22** from the top thereof, the member having a head **23** seated in a countersunk portion **24** about the aperture in the seat mounting **15**. The screw **19** enters the threaded bore of member **22** and has a slot **25** in its head to accommodate a screw-driver. It is evident from the foregoing that the leg **14** may revolve on the axis provided by the screw **19** and may oscillate on the axis provided by the pin **17**.

Each of the legs **14** has an annular brace consisting of a pair of links **26** and **27** pivoted together at *d*. The link **26** is pivoted at *e* to a leg **14** adjacent the midsection of the latter and the companion link **27** is pivoted at *f* to the approximate midsection of a side member **11** of the base. Each link **27** of each angular brace has a right angular lug **28** formed on the end nearest the pivoted point *d* adopted to engage in a recess *g* in the companion link **26**, to prevent displacement of the links past dead center position, thus to support the legs **14** in vertical position. When the four brace members are collapsed, they fold into the confines of the vertical flanges **12** of the base **10** alongside the legs **14**, there being a space between the legs and flange **12** provided by a spacing sleeve **29** surrounding the pivot pin *a* between the end of each leg and the adjacent flange **12**. As the legs move downwardly toward collapsed position, the seat mounting **15** revolves in an arc of 90°, coming to rest on top of the base **10** into which the legs **14** and their related parts are folded.

Superposed on the seat mounting **15** is a seat **30** of the same dimensions as the seat mounting. The seat **30** is made rotatable on the seat mounting **15** by means of a large disc **31**, affixed by means of screws **32** to the seat mounting **15**. Frictionally engaging the disc **31** is a like disc **33** which is secured by screws **34** to the underside of the seat **30**. A pin **35** extends through both discs **31** and **33** and through both the seat mounting **15** and seat **30** and about which the seat **30** revolves, the friction between the discs **31** and **33** preventing too free movement of the seat **30**.

A suitable padding (not shown) may be applied to the seat **30** as well as to a back rest **36**, for comfort, the back rest being hinged at **37** along one edge of the seat **30** and foldable onto the seat as shown in Figure 3, thus making of the chair, in collapsed position, a compact package easily stored for transportation or, when desired, may be left clamped to the seat of a boat, when so used; to afford in itself a seat in folded position. Suitable means, such as chains **38**, may be employed to hold the back rest **36** in operative position.

What is claimed is:

1. A folding chair comprising a substantially square base, the side members of which are substantially L-shaped in cross-section to define confronting flanges interiorly of said base, a seat of substantially square shape, a plurality of supporting legs for said seat, each having its lower end pivoted to a side member of said base adjacent the corner thereof, to rotate about an axis transverse to said side member means for swivelly pivoting the upper end of each of said legs to a corner of said seat for rotative and oscillative displacement in relation to said seat whereby each of said legs will move to a position within the confines of said base and in parallelism with the side of said base to which it is pivoted, and collapsible means for supporting said legs in upright position.

2. A folding chair comprising a substantially square base, a leg pivoted at one end to each side of said base at a point spaced from a corner thereof for rotation about an axis perpendicular to the side of said base to which

it is pivoted, a seat mounting of substantially square shape, a swivelly pivoted connection between the other end of each of said legs to a corner of said seat to enable said legs to be collapsed to a position within the confines of said base and in parallelism with the sides thereof, and foldable means for supporting said legs in upright position.

3. In a folding chair, a substantially square base composed of four side members of equal length, a leg pivoted to a side member at a point spaced from each corner of said base for rotation about an axis transverse to the side member to which it is pivoted, a seat of substantially square cross-section, swivel means pivotally connecting the upper end of each of said legs to a corner of said seat to enable said seat to rotate 90° when said legs are moved into a position parallel with the side members of said frame.

4. The structure as set forth in claim 3, and collapsible means for supporting said legs in a position perpendicular to said base.

5. In a folding chair, a substantially square base composed of side members joined together at their ends, a leg pivoted to each of said side members at a point

spaced from one end thereof for rotation about an axis at right angles to the side member to which it is pivoted and adapted, in collapsed position, to lie in parallelism with and inwardly of said side member, a substantially square seat member, swivelly pivoted means connecting the upper end of each of said legs to a corner of said seat member whereby said seat member will rotate 90° as said legs are moved from upright to collapsed positions, and means for supporting said legs in upright position.

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