Nov. 22, 1938. J. BRANDENBURG 2,137,799

FOLDING CHAIR

Filed May 18, 1937

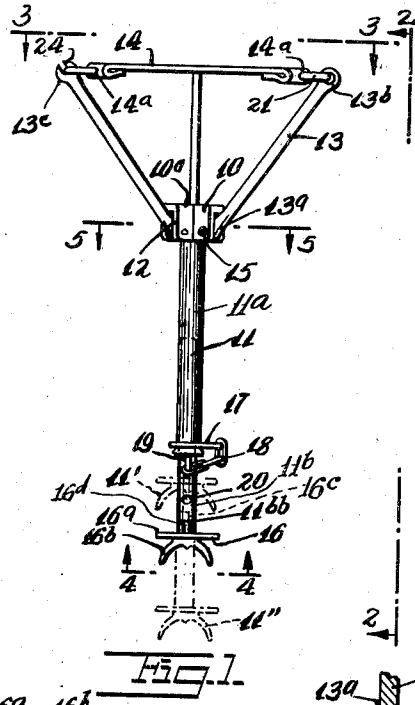


Fig. 1.

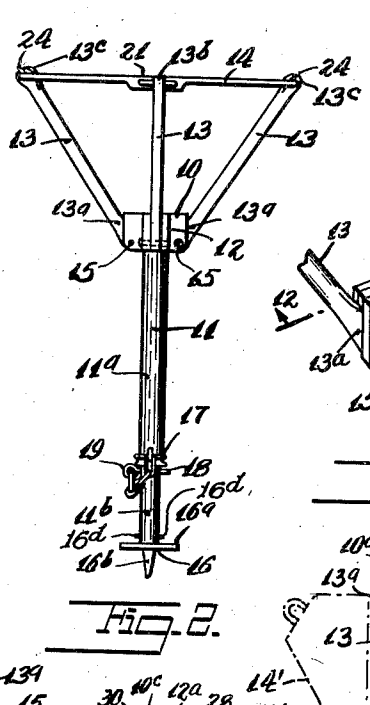


Fig. 2.

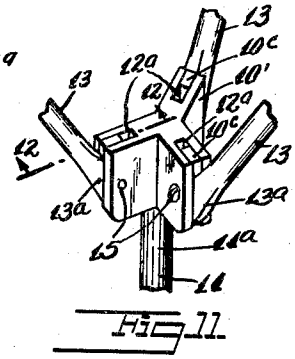


Fig. 11.

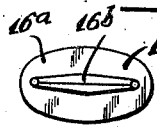


Fig. 4.

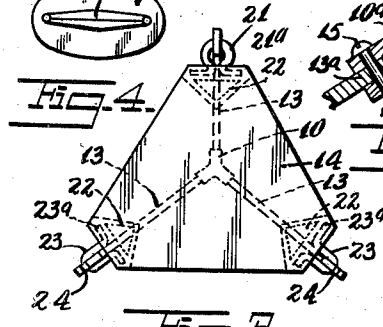


Fig. 3.

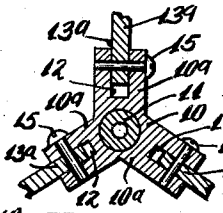


Fig. 5.

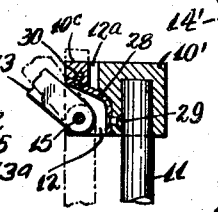


Fig. 12.

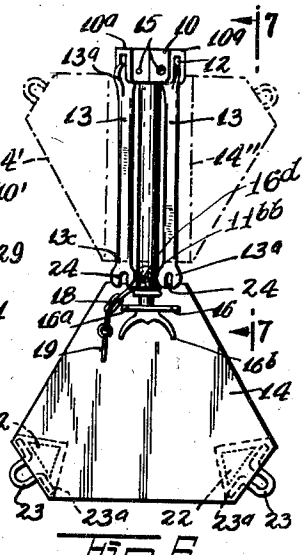


Fig. 6.

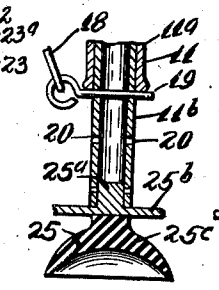


Fig. 8.

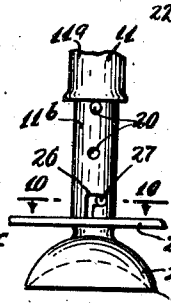


Fig. 9.

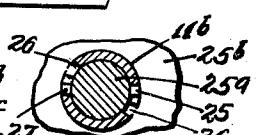


Fig. 10.

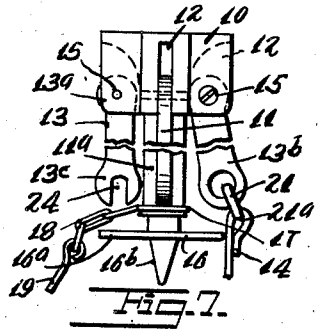


Fig. 7.

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FOLDING CHAIR

Julius Brandenburg, New York, N. Y.

Application May 18, 1937, Serial No. 143,243

3 Claims. (Cl. 155—135)

This invention relates to new and useful improvements in a folding chair.

More specifically, the invention is characterized by a plurality of arms pivotally mounted at one of their ends in slots formed in a bracket, and which are adapted to extend downward parallel to a foot structure extending from said bracket, and being capable of moving to an upward and outward position as limited by the engagement with the walls of the slots to a position in which a seat member may be secured at their outer ends for forming a folding chair.

Still further the invention provides that the foot structure associated with the bracket be formed of telescopic members having means for holding them in adjusted positions for changing the relative height of the seat member. The lower end of the foot structure is provided with a satisfactory element for engaging the surface upon which it is rested for preventing the chair from slipping.

Still further the invention provides for resiliently mounted blocks within the slots in said bracket against which the pivotally mounted arms may engage to permit the arms to be pivoted to a position in which they may easily be engaged on the hooks of the seat.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawing, and to the appended claims in which the various novel features of the invention are more particularly set forth.

In the accompanying drawing forming a material part of this disclosure—

Fig. 1 is a plan view of the folding chair according to this invention.

Fig. 2 is a view looking in the direction of the line 2—2 of Fig. 1.

Fig. 3 is a view looking in the direction of the line 3—3 of Fig. 1.

Fig. 4 is a view looking in the direction of the line 4—4 of Fig. 1.

Fig. 5 is a sectional view taken on the line 5—5 of Fig. 1.

Fig. 6 is a view showing the parts of the chair in their folded condition.

Fig. 7 is a view looking in the directon of the line 7—7 of Fig. 6.

Fig. 8 is a portion of Fig. 1 showing a modified form of the invention.

Fig. 9 is an elevational view of Fig. 8.

Fig. 10 is a view taken on the line 10—10 of Fig. 9.

Fig. 11 is a perspective view of a modified form of bracket.

Fig. 12 is a view taken on the line 12—12 of Fig. 11.

The folding chair, according to this invention, comprises a bracket 10 mounted on the top end of a foot 11 and having several slots 12 each extending inwards from the bottom and outer side of the bracket 10. Arms 13 are pivotally mounted at one of their ends 13a in the slots 12 and are adapted to extend downwards parallel to the foot 11 and upwards and outwards as limited by engagement with the top walls of the slot 12. A seat 14 is secured on the outer end 13b of one of the arms 13 and releasably engages the outer ends 13c of the other arms 13.

The bracket 10 consists of a piece of material having three finger portions 10a spaced 120° from each other. It is these finger portions 10a which are provided with the slots 12 which extend inwards from the bottom and outer sides thereof. The ends 13a of the arms 13 extend within the slots 12 and pintle pins 15 extend through openings in the finger portions 10a and the ends 13a for pivotally mounting the arms 13 on the bracket 10 so that these arms may be pivoted to an inoperative position parallel to the foot 11, or to an operative position as limited by the top wall of the slots 12.

The foot 11 consists of sections 11a and 11b which telescopically engage each other. The top end of the outer section 11a engages into the bracket 10 from the underside. The section 11b has its top end engaging into the bottom end of the outer section 11a and is provided at its bottom end with a ground peg 16. This ground peg consists of a plate portion 16a and a toe portion 16b. The top face of the plate portion is formed with a shank portion 16c which is adapted to extend into the bottom of the inner section 11b of the foot 11. This shank has outwardly extending pegs 16d which engage into bayonet slots 11b formed in the inner section 11b for holding the ground peg 16 in position upon the foot 11. It is the toe portion 16b which engages the ground upon which the seat is resting for preventing the chair from sliding beneath the person sitting thereon. The plate portion 16a is adapted to abut the top surface of the ground upon which the stool is resting for preventing the weight of the person from forcing the inner section 11b of the foot 11 into the ground.

A means is provided for holding the sections 11a and 11b in their various extended positions. This means comprises a ring 17 which engages around

the bottom end of the outer section 11a and which carries a chain 18 upon the end of which a peg 19 is mounted. This peg is adapted to be extended through aligned openings 20 in the inner section 11b for holding the sections in their extended position. As shown in Fig. 1 the peg 19 may be so positioned within the openings 20 to hold the sections in the position illustrated by the dot and dash lines 11'. If the person sitting on the chair finds that the chair is too low he may withdraw the section 11b from the section 11a after having withdrawn the peg 19 from the opening 20 and extended the section 11b to the position illustrated by the full lines 11b or the dot and dash line 11''. He may then re-engage the peg 19 with the proper opening 20 to hold the sections 11a and 11b in a fixed position.

The seat 14 comprises a piece of leather or other similar material of a substantially triangular shape. One of the corners of the seat 14 is provided with a ring element 21 which has its ends 21a engaging through an opening 14a in the seat corner. This corner is then bent over and held in position by stitches 22 for holding the ring 21 in position thereon. This ring 21 engages the loop portion 13b of one of the arms 13 for fixedly holding the seat to this arm in all of the positions of the chair. The other two corners of the chair 14 are provided with hook elements 23 which have their ends 23a engaging through openings 14a in the other corners of the seat portion 14, these corners are also bent over and held in position by stitches 22. These hooked portions are adapted to engage slots 24 formed in the other arms 13 for holding the seat portion 14 in a substantially horizontal plane in the assembled position of the device.

The device, as shown in Figs. 1–3 is in its assembled position, while in Fig. 6 the device is shown in its closed position. To close the chair, as shown in Fig. 6, the peg 19 is withdrawn from the opening 20 and the inner section 11b is pushed to a position in which it is entirely contained within the outer section 11a. The hook elements 23 are then disengaged from the slots 24 to permit the arms 13 to be moved to a position in which they are in a parallel position alongside the foot structure 11. When the arms 13 have been moved to their closed position the seat portion 14 will extend beyond the end thereof as shown by the full lines in Fig. 6. This seat 14 is moved to the dot and dash position 14' shown in Fig. 6 and the ends thereof are wrapped around the foot 11 and the arms 13 to the position illustrated by the dot and dash lines 14'' in Fig. 6. Thus it will be seen that the chair in its closed position occupies a minimum of space and at the same time forms a strong seat structure which is capable of supporting considerable weight without the collapsing of any of the parts.

According to the modification shown in Figs. 8–10 the ground peg 25 consists of a shank portion 25a which continues into a plate portion 25b and a suction cup 25c which is adapted to engage a substantially hard and flat surface for preventing the folding chair from slipping under the weight of a person resting thereon. The sides of the inner section 11b are formed with aligned bayonet slots 26 into which pegs 27 projecting from the opposite sides of the shank portion 25a are adapted to engage in order to hold the ground peg 25 in position on the inner section 11b. This plate portion 25b as shown in this form of the invention merely acts as a flange which is adapted to abut the bottom end of the inner section 11b. In other respects this form of the invention is similar to the previous form and similar parts may be recognized by the corresponding reference numerals.

According to the modification shown in Figs. 11 and 12 the bracket 10' is provided with blocks 10c which are resiliently mounted in the slots 12 formed therein in order to permit the seat portion 14 to be easily engaged on the arms 13. A spring 28 is held in position upon the body of the bracket 10' within each slot 12 by means of a rivet or similar holding element 29. The outer end of the spring 28 carries a block 10c which is held in position thereon by means of a screw or similar holding element 30. Each block 10c extends into a portion 12a of the slot 12 and is adapted to resiliently limit the upward and outward pivoting of each of the arms 13. In this form of the invention when it is desired to engage the hook elements 23 into the slots 24 formed in the ends 13c of the arms 13 it is merely necessary to pivot the arms 13 to their upward and outward position against the holding action of the springs 28 to a position in which the hook elements 23 will easily engage the slots 24. When these arms 13 are again released the springs 28 will force the arms 13 back to a position in which they will resiliently hold the seat element 14 in a substantially horizontal position. In other respects this form is similar to the previous form of the invention and similar parts may be identified by corresponding reference numerals.

While I have illustrated and described the preferred embodiments of my invention, it is to be understood that I do not limit myself to the precise constructions herein disclosed and the right is reserved to all changes and modifications coming within the scope of the invention as defined in the appended claims.

Having thus described my invention, what I claim as new and desire to secure by United States Letters Patent is:

1. In a folding chair a foot for engaging the ground and for supporting a bracket which has arms pivotally mounted thereon to support a seat, said foot comprising telescopic tubes adjustably engaging each other and means for holding said telescopic tubes in their extended positions, said means comprising a ring on the bottom end of one of said telescopic sections, a chain extending from said ring, and a pin on the end of said chain adapted to extend through aligned openings of a series of openings formed in the other of said sections and on which said first section rests, the lower of said sections being provided with a ground peg with wedge shaped prongs for preventing said chair from slipping, said ground peg comprising a shank portion having pegs extending from the sides thereof and engaging bayonet slots in one of said telescopic sections for releasably holding said ground peg in position thereon, said shank portion continuing into a horizontal plate portion abutting the bottom edge of said telescopic section and said plate portion continuing into a vertical toe portion comprising wedge shaped prongs which are adapted to engage into said ground for preventing said chair from slipping.

2. In a folding chair a bracket having several slots each extending inwards from the outer sides and arms pivotally mounted at one of their ends in the bottom of said slots and adapted to extend downwards and upwards and outwards as limited by engagement with resiliently supported blocks mounted in the tops of said slots for sup-

porting a seat secured on the outer end of one of said arms and releasable on the outer ends of said other arms.

3. In a folding chair a bracket having several slots each extending inwards from the outer sides, and arms pivotally mounted at one of their ends in the bottom of said slots and adapted to extend downwards and upwards and outwards as limited by engagement with resiliently supported blocks mounted in the tops of said slots for supporting a seat secured on the outer end of one of said arms and releasable on the outer ends of said other arms, said resiliently supported blocks comprising leaf springs having one of their ends fixedly attached to the body portion of said bracket and blocks fixedly mounted on the other end of said springs and extending upwards into enlarged portions of said slots and being adapted to engage the top sides of said arms for forcing said arms into a position in which they maintain said seat in a substantially horizontal position.

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