Jan. 29, 1963 G. N. KITSOPOULOS 3,075,810

MULTIPLE PURPOSE CHAIR

Filed Dec. 19, 1960 2 Sheets-Sheet 1

Fig. 1

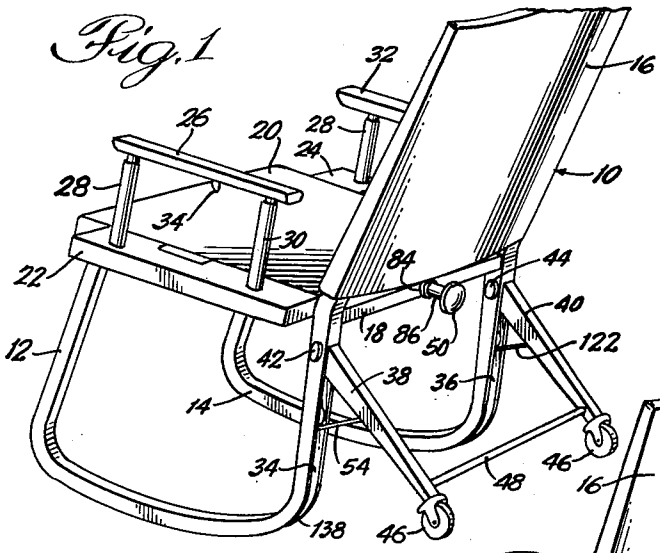


Fig. 2

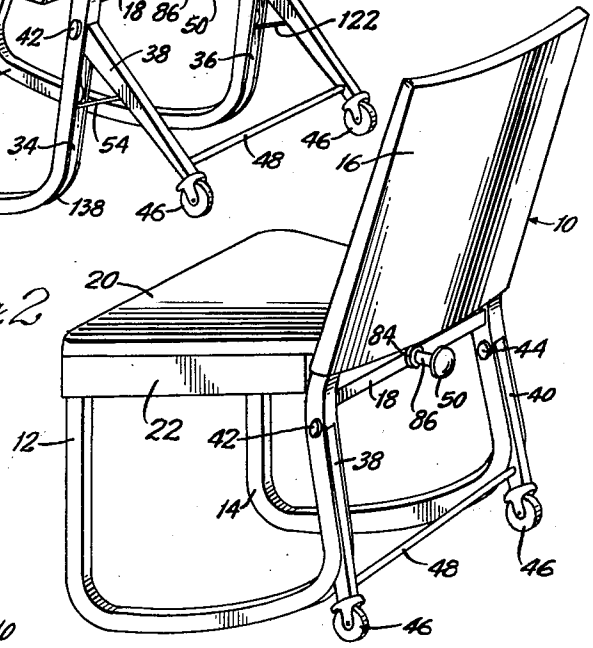


Fig. 3

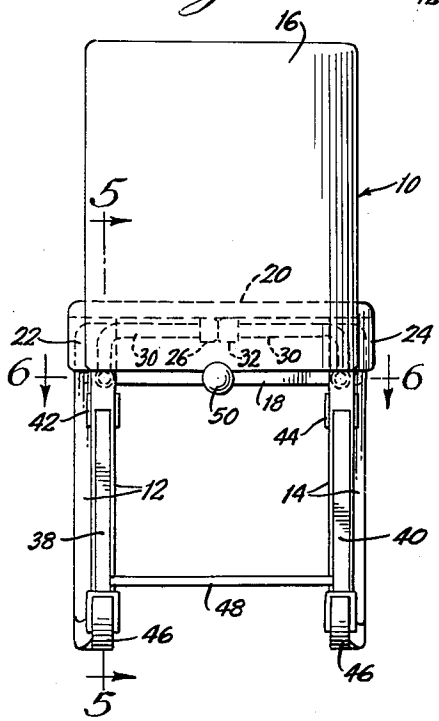
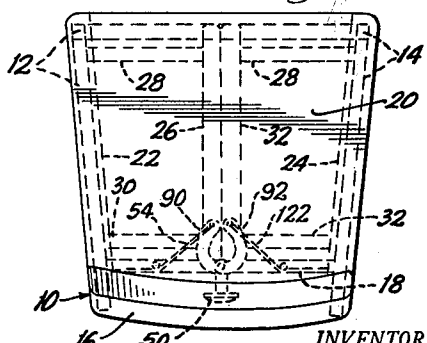


Fig. 4



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Filed Dec. 19, 1960 2 Sheets-Sheet 2

Fig. 5

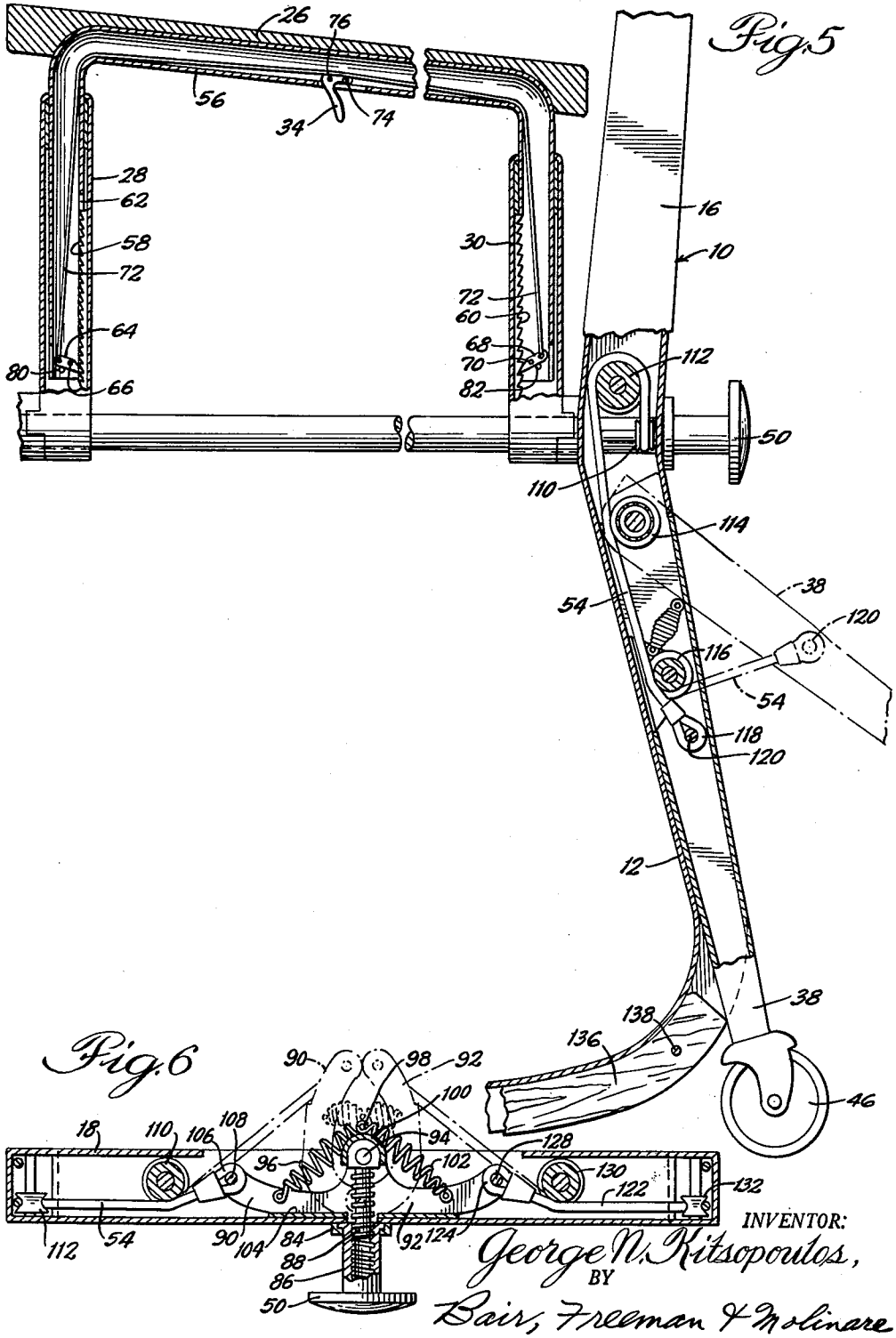


Fig. 6

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3,075,810

MULTIPLE PURPOSE CHAIR

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Filed Dec. 19, 1960, Ser. No. 76,561
7 Claims. (Cl. 297—270)

This invention relates generally to new multi-purpose chair constructions and more particularly to improvements in a multipurpose chair of the type which is selectively adjustable to various uses and positions.

In my co-pending application entitled Multiple Purpose Chair, Serial No. 809,029, filed April 27, 1959, and now Patent No. 3,028,196, granted April 3, 1962, there is disclosed a novel chair construction which is selectively adjustable for use as a regular chair, a low profile relaxation or lounge chair, or a rocking chair. This versatility in my primarily disclosed multiple purpose chair is provided by a construction which comprises, in combination, a main frame, a seat of selectively adjustable height, a pair of selectively foldable support members which, in their horizontal position, serve to support a seat and which in their vertical position serve as arm rests, and pivotable leg means which may be adjusted with respect to the main frame to permit the chair to be used in a stationary position or to be used as a rocking chair.

It is a general object of this invention to provide a new multiple purpose chair construction which is an improvement over the multiple purpose chair disclosed in my co-pending application.

More particularly, it is an object of this invention to provide a new and improved multiple purpose chair having foldable arm support members of selectively adjustable height.

It is another object of this invention to provide adjustable height arm support members in a multipurpose chair, as above, formed with side pads adapted in one position thereof to support the chair seat and in another position thereof to support adjustable height arm rests in such a manner as to provide greater sitting area at the chair seat.

It is still another object of this invention to provide a multipurpose chair construction having a tubular main frame and selectively pivotable leg means wherein said main frame is formed with suitable recesses for receiving the pivotable leg means in vested fashion when the chair is used as a stationary chair.

It is a further object of this invention to provide a new and improved multipurpose chair, as above, having adjustable locking means cooperating with spring and pulley means for adjusting the position of the pivotable leg means whereby the rocking sweep of the chair may be selectively adjusted when the chair is used as a rocking chair.

It is a still further object of this invention to provide new and improved means in a multipurpose chair, as described above, for adjusting the position of the pivotal leg means with respect to the main frame whereby the pivotable leg means are moved outwardly from the main frame to increase the rocking sweep automatically in response to the weight of the person sitting on the chair, and further, comprising adjustable lock means cooperating with spring and pulley means to bring the pivotable leg means towards the main frame for a smaller rocking sweep or for

nesting within the recesses of the main frame when the chair is to be used as a stationary chair.

It is a still further object of this invention to provide a multipurpose chair having a tubular main frame of lightweight metal construction wherein the lowermost portion of the main frame is provided with arcuate wooden shoe means to protect the main frame base from wear and to give a stronger rocking base on a lightweight tubular frame.

It is a still further object of this invention to provide a new and improved multiple purpose chair construction as described above, which is characterized by its extreme versatility, its durability and its highly pleasing appearance.

With these and other objects in view, the invention consists in the construction, arrangement and combination of the various parts of the novel multipurpose chair construction whereby the objects contemplated are attained as hereinafter set forth. The various features of the novelty which characterize this invention are pointed out with particularity in the claims annexed to and forming a part of this specification. For a better understanding of the invention, however, and its advantages, reference is had to the accompanying drawing and descriptive matter in which is illustrated and described a specific illustrative embodiment of the invention.

In the drawing:

FIGURE 1 is a perspective view of one preferred illustrative embodiment of the invention in its low relaxation chair position and having the pivotable legs withdrawn to permit the chair to serve as a rocking chair;

FIGURE 2 is a perspective view of a preferred illustrative embodiment of this invention showing the chair with the seat in the regular chair position and having the pivotable leg means recessed to permit the chair to serve as a stationary chair;

FIGURE 3 is a rear elevational view of the chair as shown in FIGURE 2 of the drawing;

FIGURE 4 is a top plan view of the chair shown in FIGURES 2 and 3 of the drawing;

FIGURE 5 is a side elevational view of the invention, partly broken away and partly in cross-section for purposes of illustration, showing the adjustable higher arm rests, the pivotable leg means, and the arcuate shoe features of the invention, taken substantially as shown along line 5—5 of FIGURE 3; and

FIGURE 6 is a cross-sectional view illustrating the adjustable control means for the pivotable legs as taken substantially as shown along line 6—6 of FIGURE 3.

Referring now to the drawing, and more particularly to FIGURES 1, 2 and 3 thereof, there is shown a specific illustrative embodiment of the invention which is an improvement over the multiple purpose chair shown in my copending application, S.N. 809,029. FIGURE 1 of the drawing illustrates the multiple purpose chair of the present invention with the seat in the low relaxation position and with the pivotable legs withdrawn from the chair main frame to permit the chair to serve as a rocking chair. The multiple purpose chair of the present invention, as illustrated in FIGURES 2 and 3 of the drawing, shows the invention with the seat in the regular chair position and with the pivotable legs recessed to permit the chair to serve as a stationary chair.

The illustrative embodiment of the present invention

disclosed in FIGURE 1 of the drawing comprises a main frame 10 having a pair of spaced-apart base members 12 and 14, respectively. Advantageously, each base member may be substantially U-shaped, as shown, with the lower portion thereof being arcuate to facilitate rocking of the chair when the latter is being used as a rocking chair in the manner shown in FIGURE 1 of the drawing.

As described in greater detail hereinbelow the multiple purpose chair 10 further comprises a substantially vertically positioned back rest 16 which is secured to the base members 12 and 14 and which extends therebetween at the rear portion of the chair. In addition, the multiple purpose chair of the present invention advantageously is provided with suitable supporting cross-bars on its main frame, such as the rear cross bar 18 extending between the base members 12 and 14. The chair further comprises a substantially horizontally positioned seat 20 which also is supported on the main frame 10 between the base members 12 and 14. Advantageously, the base members 12 and 14 may be provided with suitable side cross-bars to receive the seat 20, in the manner illustrated in my co-pending application. At this point it is noted that there are many points of structural similarity between the multiple purpose chair as disclosed in my earlier co-pending application, and the improvement as disclosed herein. Since these points of structural similarity do not form a part of the present invention, they will not be disclosed in detail herein, but rather the present improvement invention will be disclosed in detail only with respect to the improvement features which are not shown in my earlier co-pending application.

In accordance with an advantageous feature of the present invention, a pair of side pads 22 and 24 are pivoted to the opposite sides of the seat 20 such that the side pads may be pivoted outwardly in horizontal position as shown in FIGURE 1 of the drawing or, alternatively, pivoted to a vertical position to support the seat 20 as shown in FIGURES 2 and 3 of the drawing.

When the side pads 22 and 24 are pivoted outwardly to a horizontal position, as indicated in FIGURE 1, it can be seen that a greater seating area is provided by the combination of the seating areas afforded by the seat 20 and by the side pads 22 and 24. In accordance with a further feature of this invention, a selectively adjustable arm rest 26 is supported on a pair of support sleeves 28 and 30 fastened to the side pad 22. Similarly, a selectively adjustable arm rest 32 is selectively supported by a pair of support sleeves 28 and 30 positioned on the other side pad 24.

As described in greater detail hereinbelow, it is a feature of this invention that the height of the arm rests 26 and 32 may be adjusted in a desired manner with respect to the seat 20 by the operation of suitable finger levers 34 which serve to release an arm rest ratchet locking means provided within the support sleeves 28 and 30. In the use of the multiple purpose chair comprising the present invention, the actuation of the finger levers 34 serves to release the arm rests 26 and 32 so that their vertical position may be adjusted, as desired, and the release of the finger levers 34 locks the arm rest in place to provide maximum comfort to the user of the chair.

When, however, the chair is to be used with the seat 20 in the regular chair position, as illustrated in FIGURES 2, 3 and 4, rather than in the low profile relaxation position, as illustrated in FIGURE 1, the side pads 22 and 24 are pivoted into their generally vertical position with the result that the support sleeves 28 and 30 and the arm rests 26 and 32 are placed in a generally horizontal position. This is particularly illustrated, for example, in FIGURE 3 of the drawing. It can there be seen that when the side pads and the arm rests are in the latter position, they serve to support the seat 20 in its raised, regular chair position. The seat 20 advantageously is made vertically adjustable in any suitable manner, such as that disclosed in the earlier co-pending application with the result that the seat 20 may be raised to the regular chair position and supported thereat by the side pads 22 and 24 together with the arm rests 26 and 32.

In accordance with a further feature of this invention, the main frame advantageously is generally tubular in construction and the base members 12 and 14 are provided with suitable recess portions, said recesses being shown as 34 and 36 respectively, capable of receiving the pivotable legs 38 and 40 in a nested fashion.

As shown in FIGURES 1, 2 and 3 of the drawing, the pivotable leg 38 is pivoted to the base member 12, as at the pivot member 42, and the pivotable leg 40 is pivoted to the base member 14, as at the pivot member 44. Each pivotable leg is provided with a suitable roller or caster 46 at the lower extremity thereof and advantageously a horizontal cross bar 48 may be provided between the pivotable legs 38 and 40 to add rigidity to the pivotable leg assembly.

In the manner described in greater detail hereinbelow, the pivotable legs 38 and 40 may be moved outwardly from the base members or moved inwardly towards the base members or even nested within the base members, as desired. FIGURE 2 of the drawing illustrates the pivotable legs 38 and 40 as nested within the recesses 34 and 36, respectively, of base members 12 and 14. In this position, the rollers or casters 46 are placed directly adjacent the base members with the result that rocking action of the chair is prevented and the chair serves as a stationary chair.

In accordance with a feature of this invention, a rotatable lock knob 50 is provided on the horizontal cross bar 18 of the main frame 10. Rotation of the lock knob 50 serves to release the pivotable legs 38 and 40 such that the weight of a person sitting on the chair causes the pivotable legs 38 and 40 to move outwardly from their nested position and away from the base members 12 and 14 of the chair. Advantageously, the sweep or degree of outward movement of such pivotable legs 38 and 40 may be governed by the amount of rotation of the lock knob 50, said rotation of lock knob 50 being transmitted to the pivotable legs by means of a unique arrangement within the horizontal cross bar 18 and by means of flexible connectors 52 and 54 associated with the pivotable legs 38 and 40 respectively.

When it is desired to change the multiple purpose chair from a rocking chair—as shown in FIGURE 1 with the pivoted legs extended—to a regular stationary chair—as shown in FIGURE 2 with the pivotable legs nested within the main frame—the lock knob 50 is rotated in the opposite direction cause the flexible connectors 54 to pull the pivotable legs 38 and 40 closer to the base members 12 and 14 of the main frame. This inward movement of the pivotable legs 38 and 40 is governed by the amount of rotation of lock knob 50, and the total rotation of the lock knob causes the pivotable legs 38 and 40 to be fully nested within the recesses 34 and 36 of base members 12 and 14 of the main frame.

Turning now to FIGURES 5 and 6 of the drawing, there is illustrated in more specific detail, one preferred embodiment of a multiple purpose chair which is illustrative of the principles and advantages of the present invention. As shown therein, the mechanism by which the arm rests 26 and 32 may be selectively raised or lowered, and the mechanism by which the rocking sweep of the pivotable legs 38 and 40 is controlled, advantageously may be enclosed within the tubular main frame 10.

Thus, the arm rest 26, for example, is secured to a substantially U-shaped support member 56, the opposite arms of which are slidably disposed within the support sleeves 28 and 30, respectively. In accordance with a

unique feature of this invention, the inner wall of the support sleeve **28** is provided with a plurality of ratchet teeth **58** and the inner wall of the support sleeve **30** is provided with a plurality of ratchet teeth **60**. A portion of each arm of the U-shaped arm rest support member **56** is cut away, as at **62**, to expose the ratchet teeth **58** and **60** to the interior of the support member arms. A ratchet **64** is pivotally mounted within one arm of the arm rest support member, as by means of the pivot **66**, so as to engage the ratchet teeth **58** therewithin. Similarly, a ratchet **68** is pivotally mounted within the other arm of the arm rest support member **56**, as by means of the pivot **70**, so as to engage the ratchet teeth **60** therewithin.

In accordance with the operation of this invention, each of the ratchets **64** and **68** is connected by means of the flexible connecting member **72** to the arm rest finger lever **34** which is pivotally mounted within the arm rest support member **56** and which has a finger-engaging portion extending through an opening in the arm rest support member so as to be manually actuatable to raise or lower the arm rest, as desired. Thus, it can be seen that the two ratchets **64** and **68** are connected by means of the flexible connector **72** to a suitable point **74** on the finger lever **34**, and when the finger lever is manually actuated about its pivot **76**, the flexible connector **72** pivots each of the ratchets out of engagement with its associated ratchet teeth to permit the arm rest **26** to be selectively adjusted with respect to the seat **20**.

Those skilled in the art will appreciate that in the particular illustrative embodiment disclosed in FIGURE 5 of the drawing, the arm rest **26** may be pulled upwardly without actuation of the finger lever **34**, due to the angular relationship between the ratchet teeth and the ratchet and that the arm rest will be locked into any position into which it is pulled. Conversely, when the arm rest **26** is to be lowered, it merely is necessary to actuate the finger lever **34** to release the ratchets **64** and **68**, and the arm rest **26** may be lowered to any desired position. When this desired position is reached the finger lever **34** is released and the ratchets engage the ratchet teeth to lock the arm rest in place. It will be obvious to those skilled in the art that the ratchets **64** and **68** may be provided with suitable spring return means (herein not shown) and each ratchet may be supplied with a stop member to limit its rotation, such as the stop member **80** associated with ratchet **64** and the stop member **82** associated with the ratchet **68**.

In accordance with a further feature of this invention, as particularly illustrated in FIGURES 5 and 6 of the drawing, the position of the pivotable legs **38** and **40** may selectively be adjusted with respect to the main tubular frame **12**. This advantageous result is provided by one illustrative embodiment of the invention which comprises a rotatable lock knob **50** which is journaled within a housing collar **84** secured to the back of the rear cross bar **18**. Preferably, the shaft **86** of the lock knob **50** is provided with an internal thread adapted to be operatively associated with a threaded stem **88** such that rotation of the lock knob **50** causes the threaded stem **88** to be moved into or out of the rear cross bar **18** in a manner determined by the direction of rotation of the lock knob.

A pair of lock arms **90** and **92** are pivotally secured at one end thereof to the threaded stem **88**, as by means of the pivot member **94**. Each lock arm is arcuate in shape such that the linear movement of the threaded stem **88** in response to the rotation of lock knob **50** causes the lock arms **90** and **92** to be pivotally rotated in opposite directions about the pivot member **94**. This operation is facilitated by means of a pair of coil springs connected between the lock arms and the pivot member **94**. Thus, as shown in FIGURE 6 of the drawing, a coil spring **96** is secured between the lock arm **90** and a point **98** on the stop member **100** around the pivot member **94**. Similarly, a coil spring **102** is connected between the lock arm **92** and the point **98**.

The operation of this feature of the invention can now be understood by those skilled in the art. The normal compressive forces of the coil springs **96** and **102** urge the lock arms **90** and **92** from their outermost position, as shown in solid lines in FIGURE 6, to their innermost position, as shown in broken lines in FIGURE 6. When the lock knob **50** is rotated to move the threaded stem **88** further into the cross bar **18**, the lock arms **90** and **92** are pivoted outwardly to their limiting point against the backing plate **104** secured to the interior wall of the cross bar **18**. When the lock knob **50** is rotated in the opposite direction, the lock arms **90** and **92** are pivoted inwardly to their limiting position as shown in broken line form in FIGURE 6.

In accordance with a feature of the invention, the movement of the lock arms **90** and **92** may be used to control the rocking sweep of the pivotable legs **38** and **40**. To this end a flexible connector **54** is secured to the outer end of the lock arm **90**, as by means of the loop **106** about the pin **108**. This flexible connector **54** is threaded past the rotatable track pulley **110** within the rear cross bar **18**, and the rotatable track pulley **112** within the back rest **16** of the main frame, to the roller bearing **114** and the track pulley **116** within the pivotable leg **38**, where it terminates in the loop **118** secured to the pin **120** within the pivotable leg. In a similar fashion, the flexible connector **122** is secured to the lock arm **92** as by means of the loop **124** and the pin **128**, and this flexible connector is threaded past the track pulley **130** within cross bar **18**, and track pulley **132** within back rest **16**, to a roller bearing and further track pulley within the pivotable leg **40** where it is secured thereto.

In the operation of the invention, when an adjustment of the rocking sweep of the pivotable legs is desired, it will be appreciated that the rotation of lock knob **50** to pivot the lock arms **90** and **92**, in the manner described heretofore, serves to permit the pivotable legs **38** and **40** to be moved outwardly away from the main frame or inwardly closer to the main frame, as desired. Manifestly, when the lock knob **50** is rotated to permit greater rocking sweep, the outward movement of the pivotable legs is facilitated by the weight of the person sitting on the chair. Thus, the downward pressure on seat **20** due to the weight of the user causes the pivotable legs **38** and **40** to roll outwardly away from the main frame to the limiting position determined by the amount of rotation given lock knob **50**. This is illustrated in broken line form in FIGURE 5 of the drawing. Conversely, rotation of the lock knob **50** in the other direction causes the pivotable legs to be drawn inwardly to the limiting position as shown in solid line form in FIGURE 5 wherein the pivotable legs are nested within the recesses of the base members **12** and **14** of the chair.

In accordance with a still further feature of this invention, the lowermost portions of the main frame, i.e., the bottoms of the base members **12** and **14**, are provided with strengthening means such that the main frame may be made with a tubular lightweight metal construction and still provide a strong rocking base when the chair is used as a rocking chair. To this end, each base member **12** and **14** advantageously is provided with an arcuate shoe **136**, preferably formed of some material such as wood, plastic or the like. In the construction of the invention, each arcuate shoe **136** is fitted within the recess formed by the tubular frame and is secured thereto by any suitable means, such as the fasteners **138**. It can be seen that the arcuate shoe **136** is slightly greater in the vertical dimension than the base members **12** or **14** so as to insure contact between the arcuate shoe and the surface upon which the chair rests. Thus, it can be seen that the tubular main frame may be of a lightweight metal construction since the arcuate shoe means serves to protect the main

frame base from wear and gives a stronger rocking base on such lightweight frame.

There has been shown and described an illustrative embodiment of the present invention which is directed to unique and advantageous improvements in multiple purpose chairs. Those skilled in the art will readily appreciate that the principles of the invention may be used with constructions other than the particular illustrative embodiments described herein, and that various changes and modifications may be made without departing from the principles of the invention. Therefore, it is intended to cover in the appended claims any changes and modifications which fall within the true spirit and scope of this invention.

What is claimed as the invention is:

1. A multiple purpose chair having a plurality of selectively adustable positions comprising a tubular main frame, a seat adapted to be supported at a selectively adjustable height on said main frame, means associated with said seat for enabling the seat to be raised and lowered with respect to said frame, said means comprising a support member pivotally secured to each side of said main frame, said support members being adapted to be folded in horizontal position for supporting the seat when the chair is serving as a regular chair and being further adapted to be unfolded into a vertical position for permitting the seat to be lowered therebetween when the chair is serving as a low profile relaxation chair, an arm rest on each support member, manually actuatable means for enabling each arm rest to be raised or lowered with respect to its support member, adjustable leg means pivotally secured to the rear of said main frame, said main frame defining recesses for receiving said adjustable leg means in nested fashion when the chair is serving as a stationary chair, adjustable lock means for releasing said adjustable leg means to permit the latter to be moved outwardly away from the main frame when the chair is serving as a rocking chair, actuating means operatively associated with said adjustable lock means and said adjustable leg means to cause the latter to be moved inwardly towards the main frame a desired amount for adjusting the rocking sweep of said chair, and for nesting said leg means within the main frame recesses to enable the chair to serve as a stationary chair, and arcuate wear shoe means in the base of said main frame to protect said main frame from wear and to give a stronger rocking base to said chair.

2. A multiple purpose chair having a plurality of selectively adjustable positions comprising a tubular main frame, a seat adapted to be supported at a selectively adjustable height on said main frame, means associated with said seat for enabling the seat to be raised and lowered with respect to said frame, said means comprising a support member pivotally secured to each side of said main frame, said support members being adapted to be folded in horizontal position for supporting the seat when the chair is serving as a regular chair and being further adapted to be unfolded into a vertical position for permitting the seat to be lowered therebetween when the chair is serving as a low profile relaxation chair, adjustable leg means pivotally secured to the rear of said main frame, said main frame defining recesses for receiving said adjustable leg means in nested fashion when the chair is serving as a stationary chair, adjustable lock means for releasing said adjustable leg means to permit the latter to be moved outwardly away from the main frame when the chair is serving as a rocking chair and, actuating means operatively associated with said adjustable lock means and said adjustable leg means to cause the latter to be moved inwardly towards the main frame a desired amount for adjusting the rocking sweep of said chair, and for nesting said leg means within the main frame recesses to enable the chair to serve as a stationary chair.

3. A multiple purpose chair having a plurality of selectively adjustable positions comprising a tubular main frame, a seat adapted to be supported at a selectively adjustable height on said main frame, means associated with said seat for enabling the seat to be raised and lowered with respect to said frame, said means comprising a support member pivotally secured to each side of said main frame, said support members being adapted to be folded in horizontal position for supporting the seat when the chair is serving as a regular chair and being further adapted to be unfolded into a vertical position for permitting the seat to be lowered therebetween when the chair is serving as a low profile relaxation chair, adustable leg means pivotally secured to the rear of said main frame, adjustable lock means for releasing said adjustable leg means to permit the latter to be moved outwardly away from the main frame when the chair is serving as a rocking chair, and actuating means operatively associated with said adjustable lock means and said adjustable leg means to cause the latter to be moved inwardly towards the main frame a desired amount for adjusting the rocking sweep of said chair, and for placing said leg means in juxtaposition with said main frame to enable said chair to serve as a stationary chair.

4. A multiple purpose chair having a plurality of selectively adjustable positions comprising a tubular main frame, a seat adapted to be supported at a selectively adjustable height on said main frame, means associated with said seat for enabling the seat to be raised and lowered with respect to said frame, adjustable leg means pivotally secured to the rear of said main frame, said main frame defining recesses for receiving said adjustable leg means in nested fashion when the chair is serving as a stationary chair, manually adjustable lock means for releasing said adjustable leg means to permit the latter to be moved outwardly away from the main frame when the chair is serving as a rocking chair, and actuating means operatively associated with said adjustable lock means and said adjustable leg means to cause the latter to be moved inwardly towards the main frame a desired amount for adjusting the rocking sweep of said chair, and for nesting said leg means within said main frame recesses to enable said chair to serve as a stationary chair.

5. A multiple purpose chair having a plurality of selectively adjustable positions comprising a main frame, a seat adapted to be supported at a selectively adjustable height on said main frame, means associated with said seat for enabling the seat to be raised and lowered with respect to said frame, said means comprising a support pad pivotally secured to each side of said main frame, each support pad being adapted to be folded into a first position for supporting the seat when the chair is serving as a regular chair and being further adapted to be unfolded into a second position for permitting the seat to be lowered therebetween to provide additional sitting area when the chair is serving as a low profile relaxation chair, an arm rest support on each support pad, said arm rests being hidden when the support pads are folded into said first position to thereby provide the chair with an attractive appearance, manually actuatable means for enabling each arm rest to be raised or lowered with respect to its support pad, and adjustable leg means pivotally secured to the rear of said main frame for adjusting the rocking sweep of said chair when the latter is serving as a rocking chair or for enabling the chair to be used as a stationary chair.

6. A multiple purpose chair having a plurality of selectively adjustable positions comprising a main frame, a seat adapted to be supported at a selectively adjustable height on said main frame, means associated with said seat for enabling the seat to be raised and lowered with respect to said frame, adjusable leg means pivotally secured to the rear of said main frame, said main frame defining recesses for receiving said adjustable leg means in nested fashion when the chair is serving as a stationary chair and, adjustable lock means for releasing said adjustable leg means to permit the latter to be moved out-

wardly away from the main frame when the chair is serving as a rocking chair.

7. A multiple purpose chair having a plurality of selectively adjustable positions comprising a main frame, a seat adapted to be supported at a selectively adjustable height on said main frame, means associated with said seat for enabling the seat to be raised or lowered with respect to said frame, adjustable leg means pivotally secured to the rear of said main frame to permit the chair to serve as a stationary chair or as a rocking chair, and arcuate wear shoe means in the base of said main frame to protect said main frame from wear and to give a stronger rocking base to said chair.

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