Aug. 18, 1964 A. J. DUKE 3,145,049

CONVERTIBLE CHAIR LOUNGE

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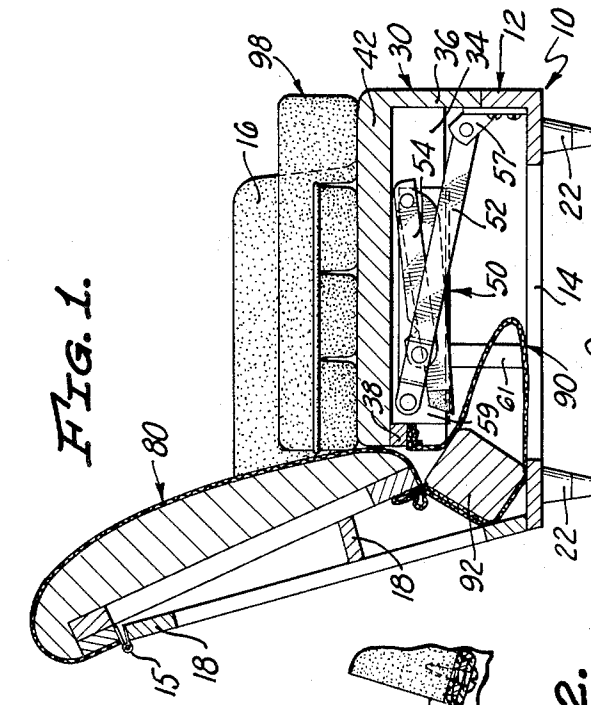


FIG. 1.

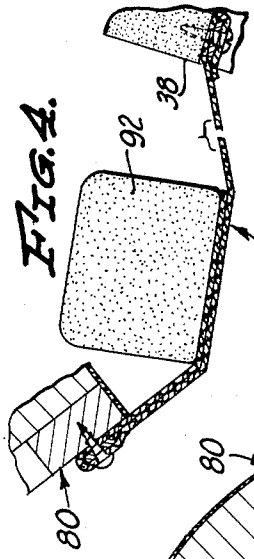


FIG. 4.

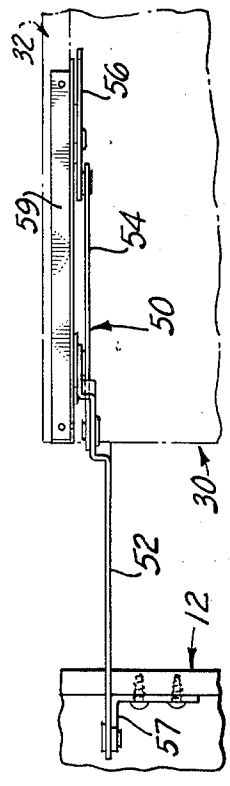


FIG. 3.

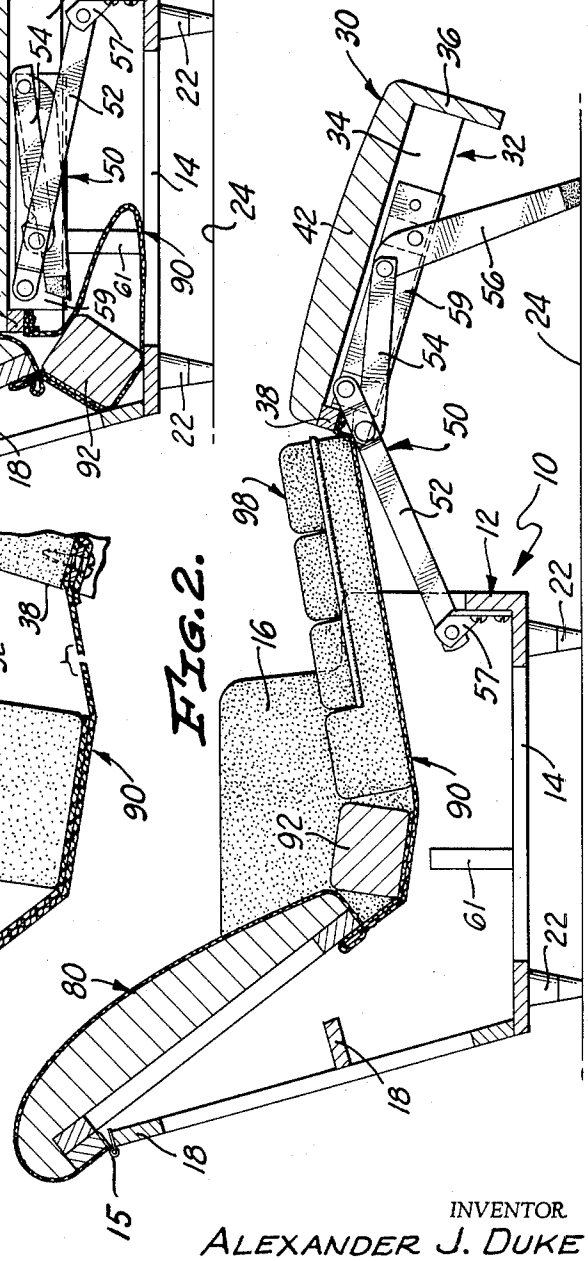


FIG. 2.

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FIG. 5.

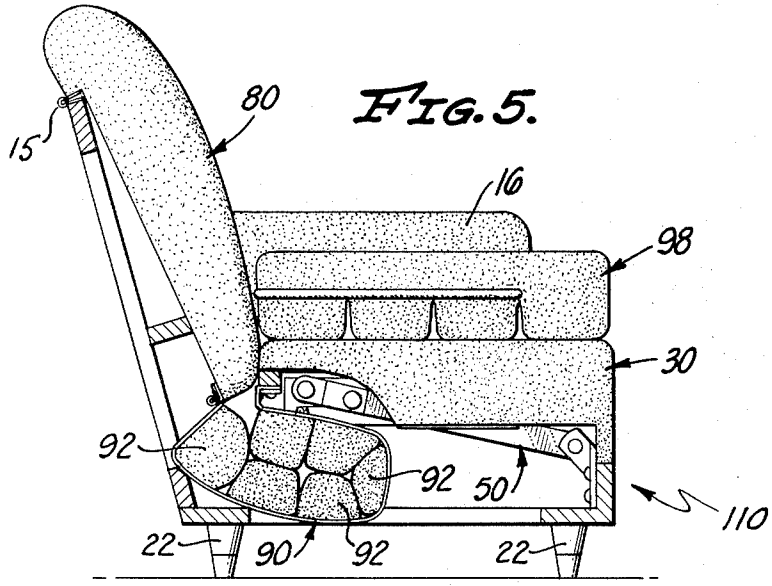


FIG. 7.

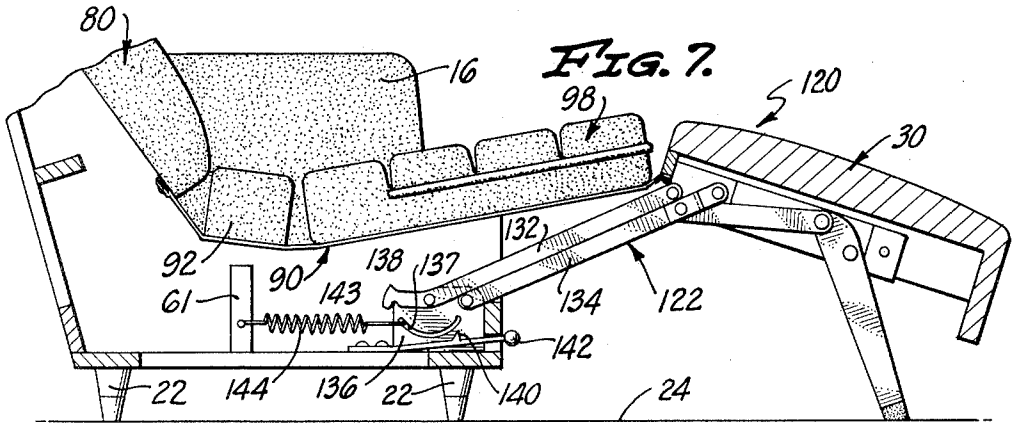
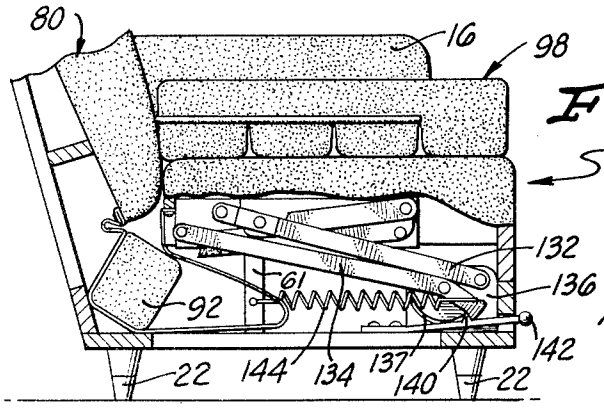


FIG. 6.



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CONVERTIBLE CHAIR LOUNGE

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8 Claims. (Cl. 297—105)

This application relates to a convertible chair-lounge, and more particularly, to a chair-lounge adapted to be utilized as a conventional easy chair or as a lounge chair for relaxing.

This application is a continuation-in-part of my copending application Serial No. 132,702, filed August 21, 1961, now abandoned, entitled "Convertible Chair Lounge."

Conventional convertible chair-lounges are usually characterized by the provision of extremely complex linkages and extensible-retractable portions connected to said linkages which greatly increase the manufacturing cost of such chair-lounges.

In addition, conventional chair-lounges usually do not resemble ordinary articles of furniture, such as an easy chair, but are characterized by a unique appearance which makes it difficult to incorporate them in a decorating scheme.

It is, therefore, an object of my invention to provide a convertible chair-lounge which is characterized by the fact that it incorporates a minimum number of rigid moving parts and a relatively simple linkage so that it can be manufactured at a relatively low cost.

Another object of my invention is the provision of a convertible chair-lounge of the aforementioned character which closely simulates the appearance of a conventional easy chair and which can, therefore, be readily incorporated in a decorative scheme.

Another aspect of conventional chair-lounges is the fact that, due to the incorporation of a plurality of rigid extensible parts, they can assume only one lounge attitude to which the user of the chair must adapt himself.

It is, therefore, an object of my invention to provide a convertible chair-lounge which is characterized by the provision of a pivotally mounted back cushion and an extensible-retractable ottoman, there being provided a flexible, hammock-like sling between said back cushion and said ottoman which is adapted to conform to the body of the user of the chair and which is also adapted to change the attitude of the back cushion in order to facilitate the angular orientation thereof into conformity with the individual reclining in the chair.

An additional object of my invention is the provision of a chair-lounge of the aforementioned character which includes an ottoman linkage adapted to extend or retract said ottoman, said linkage incorporating spring means adapted to facilitate the extension of said ottoman.

Other objects and advantages of the invention will be apparent from the following specification and the accompanying drawings which are for the purpose of illustration only, and in which:

FIG. 1 is a sectional view of a chair lounge constructed in accordance with the teachings of my invention;

FIG. 2 is a vertical, sectional view showing the chair lounge in its extended position;

FIG. 3 is an enlarged, fragmentary sectional view of the ottoman linkage;

FIG. 4 is an enlarged view of the hammock portion of the chair lounge;

FIG. 5 is a vertical, sectional view of an alternative embodiment of the convertible chair lounge in its retracted position;

FIG. 6 is a view of another alternative embodiment of the chair lounge in its retracted position; and

FIG. 7 is an enlarged, fragmentary, sectional view showing the embodiment of FIG. 6 in its extended position.

Referring to the drawings, and particularly to FIGS. 1–4 thereof, I show a chair lounge 10 constructed in accordance with the teachings of my invention and including a frame 12 which incorporates a base 14, side frame members 16 secured to said base, and a back including transverse back members 18. The frame 12 is supported upon feet 22 on a floor or other supporting surface 24.

The space between the back 18 and the side members 16, and above the base 14, constitutes a receptacle for the reception of an ottoman 30 which is disposable in its retracted position, as best shown in FIG. 1 of the drawings, within said receptacle. In its extended position, as best shown in FIG. 2 of the drawings, the ottoman 30 is disposed in front of and in spaced relationship with the frame 12.

The ottoman 30, as best shown in FIGS. 2–6, includes a frame 32 constituted by side rails 34, a front stiffener 36, and a rear brace 38, and incorporates a cushion 42, extending between said side rails. The rear brace 38 may be formed from wood, or the like.

The rear extremity of the ottoman 30 is connected to the forward extremity of the frame 12 by means of pivotal linkages 50 at each side of the ottoman 30 constituted by links 52 and 54 pivotally secured to each other.

Incorporated in each linkage 50 is a leg 56 which automatically folds down when the ottoman is moved into its extended position. The link 52 is connected to the front of the chair frame 12 by a bracket 57 to which it is pivotally secured. Its other end is pivotally connected to a bracket 59 secured to the sides 34 of the ottoman 30.

The link 54 has its inner end pivotally secured to the link 52 intermediate its extremities. The forward end of the link 54 is pivotally secured to the upper extremity of the leg 56 which is pivotally secured intermediate its extremities to the bracket 59. Therefore, when the ottoman 30 is moved into the extended position of FIG. 2 the links 52 and 54 open to move the leg 56 down into the position of FIG. 2.

When the ottoman 30 is retracted, as best shown in FIG. 1, the brackets 59 are supported upon a transversely oriented support 61 at each side of the chair 10.

An upholstered back cushion 80 is hingedly secured at its upper extremity to the upper one of the back members 18 of the frame 12 by a hinge 15. A flexible hammock or sling 90 having a bolster or cushion 92 thereupon has its rear extremity secured to the lower extremity of the back cushion 80 and its forward extremity secured to the transverse stiffener 38 at the rear extremity of the ottoman 30 and is adapted to be moved from a folded position beneath the hinged upholstered back cushion 80 and the ottoman 30 to an extended position in which it spans the space between the lower edge of the upholstered back cushion 80 and the rear extremity of the ottoman 30.

A loose cushion 98 is placed over the ottoman 30 when it is in its retracted position. When the ottoman 30 is extended, the cushion 98 is placed on the hammock 90 next to the cushion 92 and behind the ottoman 30.

To utilize the chair lounge 10 for lounging, it is merely necessary to grasp the front of the ottoman 30 and pull it out of the receptacle defined by the frame 12. When fully extended, the ottoman 30 will be located in the extended position shown in FIG. 2 of the drawings and maintained in an inclined orientation by the links 52 and 54. When returning the ottoman 30 to its retracted position, the hinged back cushion 80 moves rearwardly to facilitate the folding of the hammock 90 and the bolster 92 thereupon below the ottoman 30. The forward extremity of the ottoman 30 blends smoothly into the frame 12 of the chair 10 and the loose cushion 98 is placed in overlying relationship therewith.

An alternative embodiment **110** of the chair lounge of the invention shown in FIG. 5 of the drawings and differs from the chair lounge **10** in that the hammock **90** includes a plurality of bolsters **92**.

Another embodiment **120** of the chair lounge is shown in FIGS. 6 and 7 of the drawings and differs from the embodiment **10** by the provision of a linkage **122** between the ottoman **30** and the frame **12** which includes two links **132** and **134** on each side of the frame **12** and ottoman in place of the link **52**.

A plate **136** pivotally supports the links **132** and **134** and incorporates an arcuate opening **137** and the associated extremity of the link **132** is adapated to move in a corresponding arc across said opening, and is provided with a detent shoulder **138** therein engageable by a latch **140** mounted on an actuating handle **142**. A tension spring **144** is engageable with said extremity of said link **132**, and is adapted to facilitate the extension of the ottoman **30** by swinging the associated link **132** about its pivot to extend the ottoman **30**.

However, when the ottoman **30** is in its retracted position, the latch **140** is automatically engageable upon the detent shoulder **138** on the lower extremity of the link **132**, and prevents the tension spring **144** from rotating the associated link **132**. The lower extremity of the link **132** is, best shown in FIG. 7 of the drawings, provided with a recess **143** engageable by the associated extremity of the tension spring **144** to permit the link **132** to engage the tension spring **144**.

Therefore, once the handle **142** is depressed, the latch **140** is withdrawn from engagement with the detent shoulder **138** and the tension spring will assist in extending the ottoman **30**. When the ottoman **30** is returned to its retracted position, the link **132** picks up the tension spring **144** in the recess **143**, and extends the same until the latch **140** engages the detent shoulder **138** on said link.

I claim:

1. In a convertible chair-lounge, the combination of: a frame having a back and side arms; a rigidly supported back cushion hingedly secured to the back of said frame; an extensible-retractable linkage secured to said frame adjacent said side arms; an extensible-retractable ottoman secured to one extremity of said linkage and adapted to be extended and retracted thereupon; a flexible, hammock-like sling interposed between and secured, respectively, at its rear end to the lower extremity of said back cushion and at its forward end to the rear extremity of the ottoman; and a cushion substantially shorter than said sling secured to the upper surface of said sling in immediate proximity to the lower extremity of said back cushion.

2. In a convertible chair-lounge, the combination of: a frame having a back and side arms; a rigidly supported back cushion secured to the back of said frame, said back cushion being hingedly secured to the back of said frame for movement in respect thereto; an extensible-retractable linkage secured to said frame adjacent said side arms; an extensible-retractable ottoman secured to one extremity of said linkage and adapted to be extended and retracted thereupon; a flexible, hammock-like sling interposed between and secured, respectively, at its rear end to the lower extremity of said back cushion and at its forward end to the rear extremity of the ottoman; and a cushion substantially shorter than said sling secured to the upper surface of said sling in immediate proximity to the lower extremity of said back cushion.

3. In a convertible chair-lounge, the combination of: a frame having a back and side arms; a rigidly supported back cushion secured to the back of said frame, said back cushion being hingedly connected at its upper extremity to the back of said frame; an extensible-retractable linkage secured to said frame adjacent said side arms; an extensible-retractable ottoman secured to one extremity of said linkage and adapted to be extended and retracted thereupon; and a flexible, hammocklike sling interposed between and secured, respectively, at its rear end to the lower extremity of said back cushion and at its forward end to the rear extremity of the ottoman.

4. In a convertible chair-lounge, the combination of: a rigid frame having a back and side arms connected to said back; a back cushion having a rigid frame hingedly secured to said chair frame at its upper extremity; an extensible-retractable ottoman secured to the forward extremity of said chair frame; and a flexible, hammock-like sling having its rearward extremity secured to the lower extremity of the rigid frame of said back cushion and its forward extremity secured to the rearward extremity of said ottoman.

5. In a convertible chair-lounge, the combination of: a rigid chair frame having a back and side arms; a back cushion having a rigid cushion frame hingedly secured to said chair frame back at its upper extremity; an extensible-retractable ottoman secured to the forward extremity of said chair frame; and a flexible, hammock-like sling having its rearward extremity secured to the lower extremity of said cushion frame and its forward extremities secured to the rearward extremity of said ottoman.

6. In a convertible chair-lounge, the combination of: a rigid chair frame having a back and side arms; a back cushion having a rigid cushion frame hingedly secured to said chair frame back; an extensible-retractable ottoman secured to the forward extremity of said chair frame; and a flexible, hammock-like sling having its rearward extremity secured to the lower extremity of said cushion frame and its forward extremity secured to the rearward extremity of said ottoman, said sling having a portable cushion secured to the upper surface thereof.

7. In a convertible chair-lounge, the combination of: a rigid chair frame having a back and side arms; a back cushion having a rigid cushion frame hingedly secured to said chair frame back; an extensible-retractable ottoman secured to the forward extremity of said chair frame; a flexible, hammock-like sling having its rearward extremity secured to the lower extremity of said cushion frame and its forward extremity secured to the rearward extremity of said ottoman; and a removable seat cushion disposed in overlying relationship with said ottoman and between said arms when said ottoman is in its retracted position.

8. In a convertible chair-lounge, the combination of: a chair frame having a back and side arms, said back having a rigidly supported cushion hingedly secured thereto; and extensible-retractable ottoman secured to the forward extremity of said frame; and a hammock-like sling secured between the lower extremity of said cushion and the rearward extremity of said ottoman.

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