M. KAAIALII.

COMBINATION BOOKCASE, CHAIR, AND COT.

APPLICATION FILED OCT. 12, 1917.

1,286,648.

Patented Dec. 3, 1918.

2 SHEETS—SHEET 1.

Fig. 1.

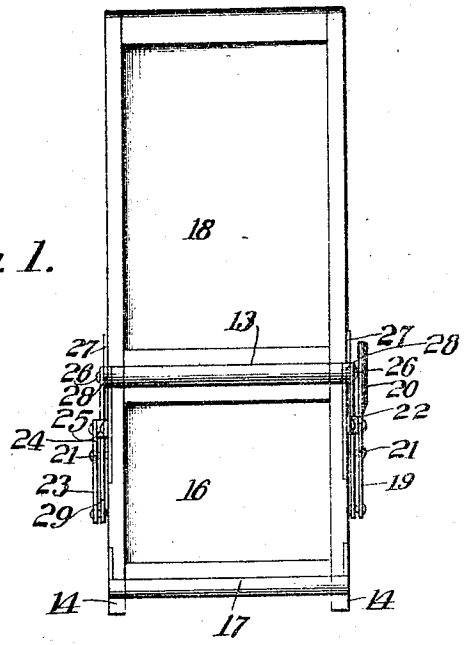
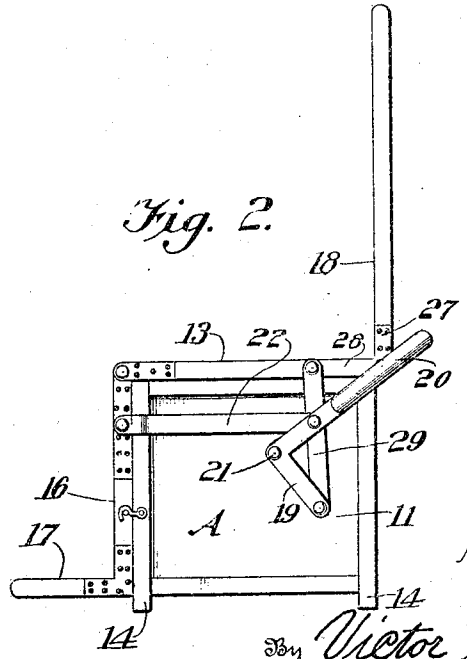


Fig. 2.



Witness

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2 SHEETS—SHEET 2.

Fig. 3.

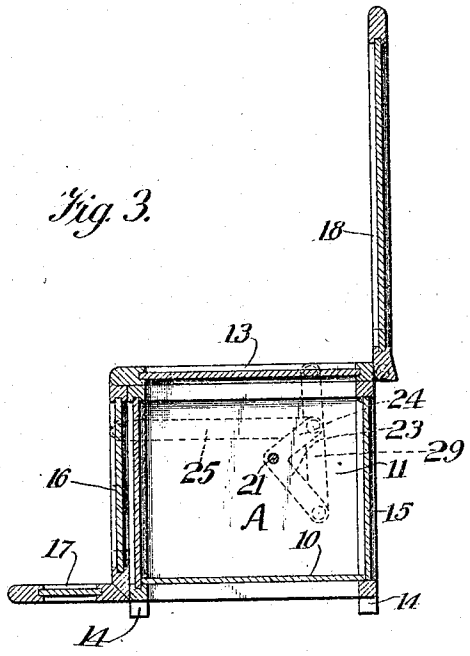
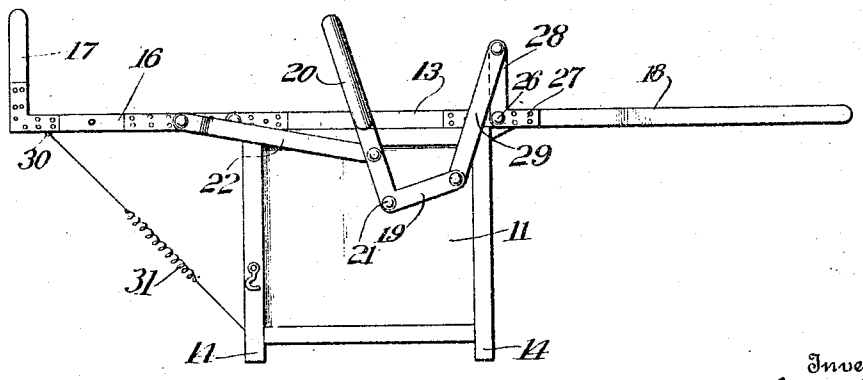


Fig. 4.



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UNITED STATES PATENT OFFICE.

MITCHELL KAAIALII, OF HONOLULU, TERRITORY OF HAWAII.

COMBINATION BOOKCASE, CHAIR, AND COT.

1,286,648. Specification of Letters Patent. Patented Dec. 3, 1918.

Application filed October 12, 1917. Serial No. 196,231.

To all whom it may concern:

Be it known that I, MITCHELL KAAIALII, a citizen of the United States, residing at Honolulu, in the county of Honolulu and Territory of Hawaii, have invented new and useful Improvements in Combination Bookcases, Chairs, and Cots, of which the following is a specification.

This invention comprehends the provision of an article of furniture in the nature of a combination book case, chair and cot, wherein the parts are so connected and arranged as to permit the same to readily assume a position for sitting purposes, or be extended to allow the occupant to rest comfortably in a lying position.

In carrying out the invention I provide a means for causing an adjustment of said parts for the above mentioned purposes, which means is disposed in convenient reach of the user of the device, so that the latter can be easily and quickly converted from a chair into a cot, or vice versa, without necessitating the user moving from the device.

Other important objects of the invention will appear as the nature of the same is better understood from the following description taken in connection with the accompanying drawings, the invention residing in the construction, combination and arrangement of parts as claimed.

In the drawings forming part of this specification like numerals of reference indicate similar parts in the several views and wherein:—

Figure 1 shows a front elevation of the device in the form of a chair.

Fig. 2 is a side elevation of the same.

Fig. 3 is a central longitudinal sectional view.

Fig. 4 is a side elevation showing the parts adjusted to form a cot.

Before entering into a detailed description of what is herein shown I desire to have it understood that the same is merely illustrative of one embodiment of the invention, to which I do not limit myself, and that such changes as desired may be resorted to that fall within the scope of what is claimed.

Referring more particularly to the drawing in detail A indicates generally a book case which as shown in this particular instance is substantially of rectangular formation including a bottom 10, parallel side walls 11, a top 13 and supporting legs 14. The book case is open at one end and provided with a suitable closure 15. The top 13 constitutes the bottom of a chair, including a leg rest 16 which is pivotally connected to the forward end of the seat 13, a foot rest 17 projecting at right angles from the foremost extremity of the leg rest 16 and rigidly secured to the latter, and a back 18 which is pivotally connected to the opposite end of the seat 13. The component parts of the chair proper may be constructed in any suitable manner and from any suitable material, and may be padded if so desired, the one essential feature however residing in the fact that these parts are of uniform width. These parts are normally disposed in their proper relative positions defining a chair, but are capable of assuming the positions illustrated in Fig. 4, whereby the chair can be readily converted into a cot.

For this purpose I preferably make use of a bell crank lever including a relatively short branch 19 and a relatively long branch 20, the lever being fulcrumed upon one side of the book case A at the point of juncture of the respective branches indicated at 21. The manipulating or relatively long branch 20 of the lever is connected to the leg rest 16 through the instrumentality of a link 22 whose opposite extremities are pivotally connected with its associated parts. The shaft 21 providing the fulcrum for the bell crank lever described, extends transversely through the book case A projecting beyond the opposite side thereof, and provides a fulcrum for a smilar lever at the opposite side of the book case, except that this lever indicated at 23 is provided with branches of approximately equal lengths, by reason of which fact it is manifest that the adjustment of the component parts of the chair is accomplished from one side of the device by means of the manipulating branch 20 of the first described lever. The branch 24 of the bell crank lever 23 is however connected to the leg rest 16 by means of the link 25, the opposite extremities of the latter being pivotally connected with its associated parts. Substantially L-shaped plates are pivotally mounted upon the bolt 26 providing the pivotal connection between the seat 13 of the chair and the back 18 of the latter, these plates being disposed at opposite sides of the chair and having one branch of each plate indicated at 27 permanently secured to the adjacent longitudinal edge of the back 18, while the other

branches 28 of said plates are connected to the remaining branches of the respective bell crank levers through the instrumentality of the links 29. These links are pivotally connected with their associated parts as shown.

The normal position of the parts is that shown in Figs. 1 and 2, in which position the article of furniture defines a combination chair and book case, it being manifest that any number of books may be conveniently disposed within the case A. In this position of parts the operating branch 20 of one of the bell crank levers is inclined rearwardly terminating in close proximity to the back 18, where it is in convenient reach of the occupant of the chair, so that the component parts of the latter can be readily and easily adjusted to assume the position illustrated in Fig. 4, which arrangement of parts defines a cot without requiring the occupant to leave the chair. To accomplish this end it is only necessary to move the operating branch 20 in a forward direction, which causes the bell crank lever of which this branch forms a part, to rock upon its fulcrum 21. During this movement of the bell crank lever, the links 22 and 25 are moved forwardly and upwardly carrying with the same the leg rest 16 to a position in horizontal alinement with the seat 13 of the chair. Simultaneously with this adjustment of the leg rest, the links 29 are moved in a vertical direction, and by reason of their pivotal connection with the branch 28 of the said L-shaped plates carried by the back of the chair 18, the said back is rocked upon its pivot until it assumes a position in horizontal alinement with both the seat 13 and the leg rest 16. As above stated when the parts are so arranged a suitable cot or bed is provided to allow the occupant to rest comfortably in a lying position. When it is desired to convert the article of furniture from a bed into a chair, a pull upon the branch 20 of the bell crank lever in a rearward direction, will operate the connecting link in a reverse direction, with the effect that the leg rest 16 will be lowered and the back 18 elevated into their normal positions. If desired a connecting element 30 and the spring 31 may be employed to assist the parts to return to normal position. It will be noted that the operating branch 20 of the bell crank lever when in either of its adjusted positions, is disposed in convenient reach of the occupant of the device, so that the adjustment of the component parts of the latter may be effected without making it necessary for the occupant to leave the chair or cot as the case may be. The device in its entirety is very simple in construction, durable, and one easily manipulated for the purpose intended.

What is claimed is:—

A chair comprising a seat, a back pivotally mounted at the rear edge of the seat, and a foot rest pivotally connected with the forward edge of the seat, elements projecting forwardly from the said back when the latter is in upright position, a lever pivoted at each side of said seat and having an offset extremity, a link providing a connection between said offset extremity of each lever and the adjacent extension projecting forwardly from said back, whereby said back is caused to assume a horizontal position upon movement of the lever in one direction, and an arm having pivotal connection with said lever and with the foot rest, whereby the latter is elevated to a horizontal position simultaneously with the lowering of the back to a horizontal position, and a spring having connection with the seat portion and with the foot rest, to assist said parts in assuming their normal position upon movement of the lever in a reverse direction.

In testimony whereof I affix my signature.

MITCHELL KAAIALII.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents Washington, D. C."