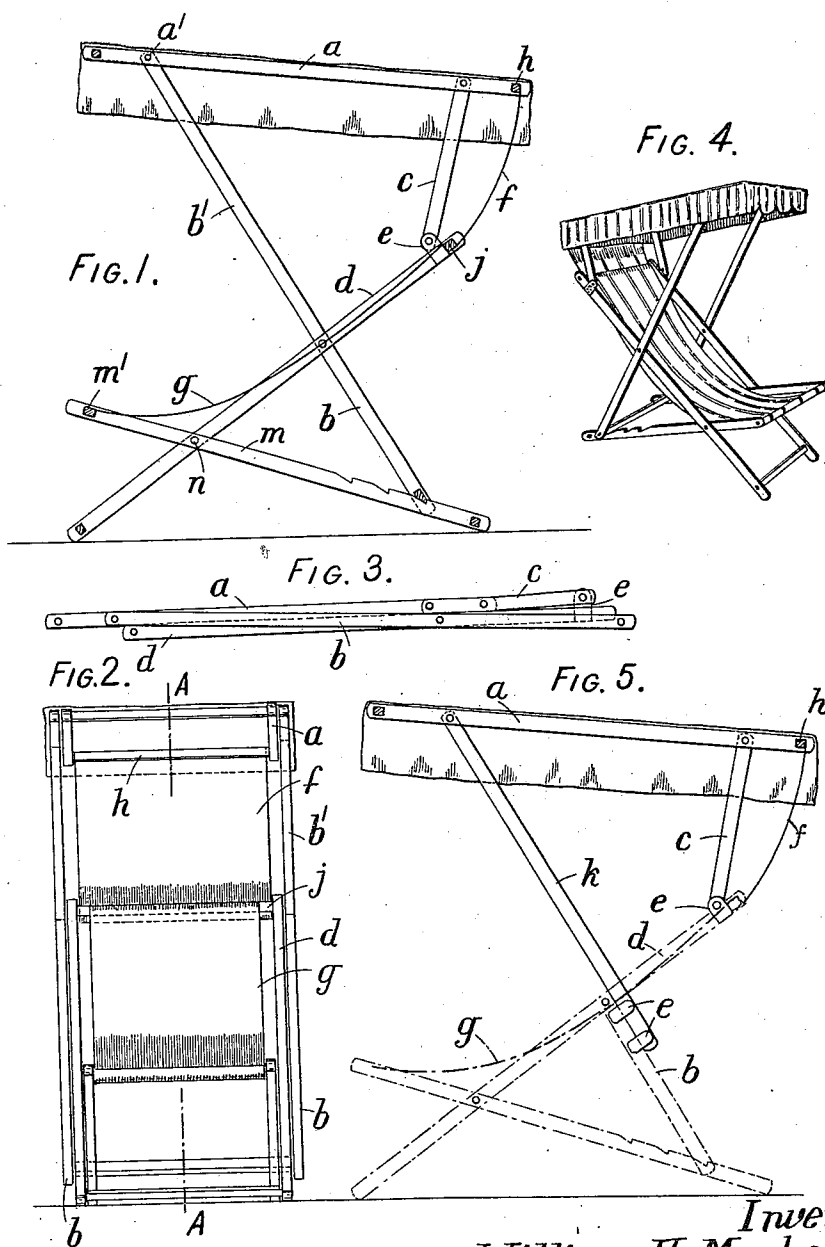


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W. H. MACKENZIE.
AWNING FOR LOUNGE AND DECK CHAIRS.
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UNITED STATES PATENT OFFICE.

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AWNING FOR LOUNGE AND DECK CHAIRS.

Application filed August 9, 1921. Serial No. 490,984.

(GRANTED UNDER THE PROVISIONS OF THE ACT OF MARCH 3, 1921, 41 STAT. L., 1313.)

To all whom it may concern:

Be it known that I, WILLIAM HECTOR MACKENZIE, a subject of the King of England, residing at "Gairlock," 57 Chatsworth Road, Bournemouth, Hampshire, England, have invented certain new and useful Improvements in Awnings for Lounge and Deck Chairs (for which I have filed an application in Great Britain August 2, 1917, Patent No. 114,748), of which the following is a specification.

The invention relates to improvements in or relating to lounge, deck or hammock chairs of the cross-frame folding type, provided with a canopy frame, and consists in so connecting the canopy frame to the chair frame that the canopy will be self-adjusting when the chair is erected or adjusted, and will cover the chair, when the latter is collapsed, thereby protecting the seat from damage, damp or dust.

The canopy frame may be integral with or form a permanent part of the chair frame, or it may be in the form of a removable attachment thereto.

For the purpose of protecting the back of the head of the user from wind, sun or rain, I provide a curtain extending from the back of the canopy frame to the top of the chair back. This curtain assists in covering and protecting the chair seat and back when the chair is collapsed or folded up and not in use.

The invention will now be described with reference to the accompanying drawings which show two embodiments of the invention.

Fig. 1 shows a sectional view of the chair open for use with the canopy in position; Fig. 2 being a front view, Fig. 3 shows a side view of the chair collapsed, but with the canopy covering omitted for the sake of clearness. Fig. 4 is a perspective view of the chair, Fig. 5 is a side view of a canopy frame in the form of an attachment to an ordinary existing form of deck chair.

Referring first to the example of my invention shown in Figures 1 to 4, the chair comprises the usual rectangular frames d and m which are pivoted together at n , the frame m being within the frame d , and the seat g being secured at one end to the front cross bar m' of m and at its other end to the rear cross bar j of d . This construc-

tion I have called a cross-frame chair. The struts b instead of terminating where they are hinged to the bar d are extended upwardly and forwardly, as shown in Fig. 1, to support the front part of the canopy frame, which consists of a rectangular frame 60 a supported at a' by the bars b' , while its rear end is hinged to links c the lower ends of which are hinged to the upper ends of the frame d by clips e . While I have shown the canopy as hinged to the bars b' , a pin and slot or pin and hole connection may be used, or the canopy may merely rest on or clip on to the bars b' or their cross bar.

I have shown a curtain f as extending from the cross bar h of the frame a to the cross bar j of the frame d in order to protect the head of the user.

It will be seen that by this construction and inter-connection of parts, the canopy will be given an appropriate tilt or inclination in accordance with the adjustment of the struts b upon the frame m .

Furthermore, when the chair is folded up, the longitudinal members of the canopy frame a will be moved forward and the links c will assume a horizontal position (Fig. 3) and lie in line with the longitudinal members of the frame a , so that the seat g will be wholly covered and protected by the canopy covering and the curtain f . It is consequently desirable to make the canopy and curtain of waterproof or damp-proof material, so that in the event of rain the chair can be simply collapsed and the seat will be efficiently protected.

In the modified construction illustrated in Fig. 5 for attachment to an ordinary deck or lounge chair, the rear part of the canopy frame is provided in the manner already described or in a similar manner with link members for attachment to the chair, while a strut k is hinged at its upper end to each longitudinal member of the canopy frame near its forward end, the lower or free ends of the struts k being provided with means for attachment to the struts b to form upward and forward extensions thereof. In this case the canopy frame is made as an accessory for application to an ordinary deck or hammock chair.

What I claim and desire to protect by Letters Patent is:—

1. An awning comprising a frame, a fab-

ric carried over the frame, a pair of braces pivoted to the forward end of the frame, a second pair of braces pivoted to the rear end of the frame, means for pivotally connecting said second pair of braces to one section of a collapsible support, and means for rigidly connecting said first pair of braces to a second section of said support, whereby said braces may be folded against the frame and the frame folded over the support upon the collapsing of the support, substantially as described.

2. An awning comprising a frame, a fabric covering the frame, a pair of relatively short braces pivoted to the rear portion of the frame, pivoted attaching members carried on the lower ends of the braces, and a pair of relatively long braces pivoted to the front portion of the frame and adapted to be held rigid and in spaced relation to the shorter braces, said frame being adapted to be collapsed upon the long braces and said short braces being adapted to extend lengthwise from the frame and over the long braces, substantially as described.

3. An awning comprising a frame, a fabric covering the frame, a pair of braces pivotally connected to the forward end portion of the frame and adapted to extend rearwardly at an inclination beneath the frame and to be disposed continuously with the braces of a folding chair, and a second pair of braces pivotally connected to the

rear end portion of the frame and adapted to be pivotally mounted upon the back of the foldable chair for cooperation with said first braces to maintain the frame at a suitable elevation above the chair, said braces and frame being adapted to be folded downwardly over said chair when the latter is collapsed for covering the chair with said fabric, substantially as described.

4. An awning for lounge and deck chairs comprising a frame, a pair of long braces pivotally mounted upon the forward end of the frame and adapted to be arranged continuously with an upwardly and forwardly inclined folding portion of the chair, a pair of short braces connected to the rear end portion of the frame and adapted to be pivotally connected to the foldable back portion of the chair, and a flexible covering carried by the frame and extending downwardly from the rear end thereof, said long and short braces being adapted to be collapsed forwardly upon the folding of the chair for carrying said frame downwardly over the seat portion of the chair and for stretching the covering over the seat and the back portion of the chair to protect the same.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM HECTOR MACKENZIE.

Witnesses:

HARVEY J. BAVASTOCK,
ROY B. BOWER.