W. T. GOUGH.

FRAME OR SUPPORT OF MOSQUITO CURTAINS.

APPLICATION FILED FEB. 26, 1912.

1,124,420. Patented Jan. 12, 1915.

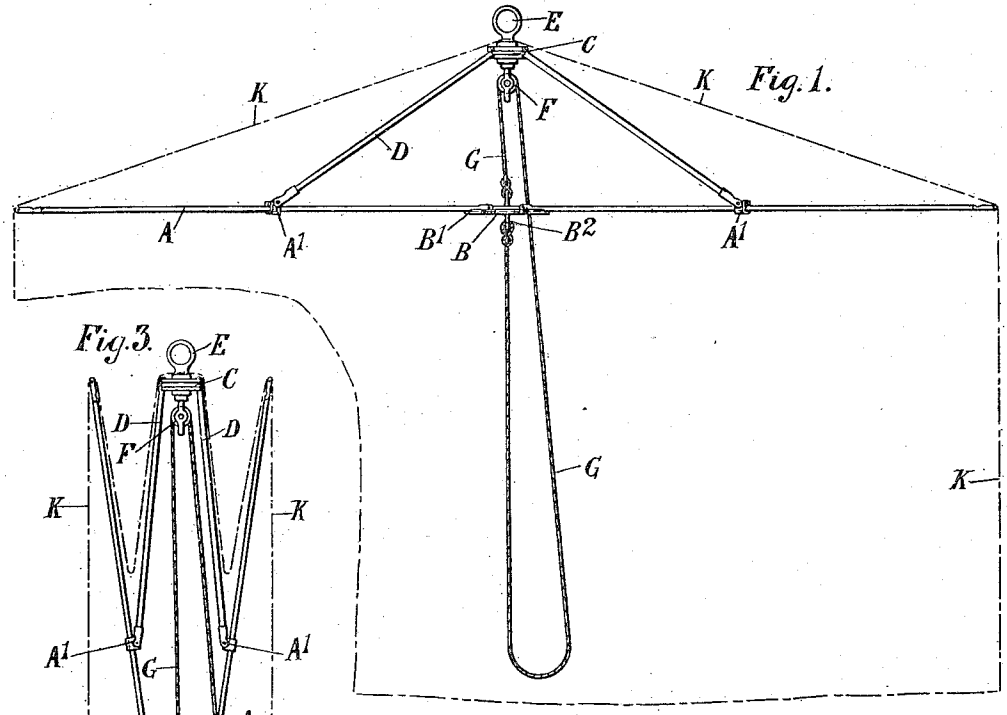


Fig. 1.

Fig. 3.

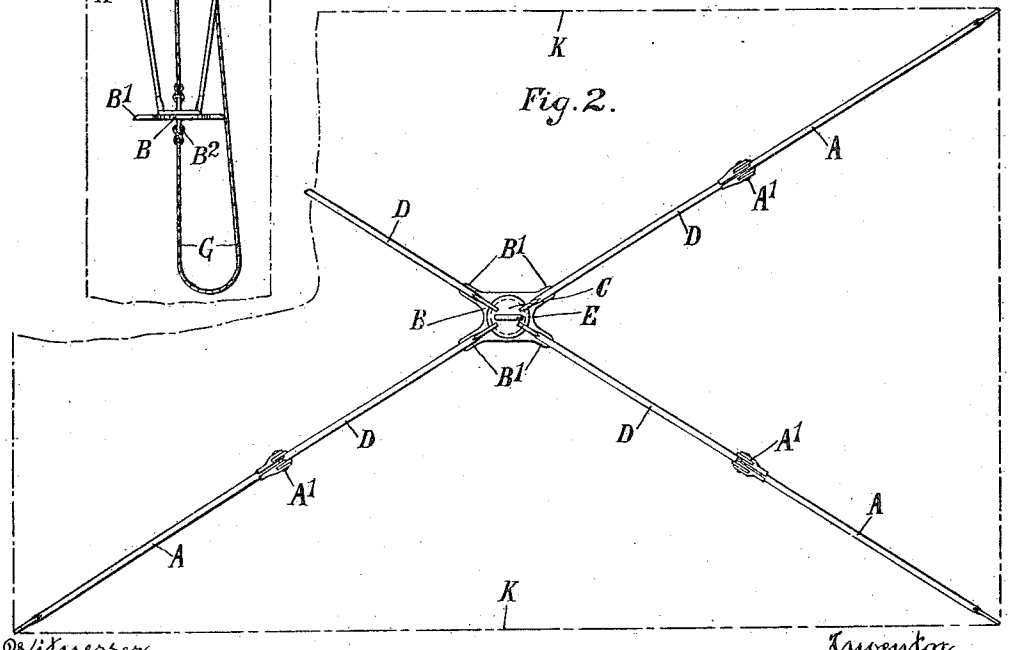


Fig. 2.

Witnesses

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UNITED STATES PATENT OFFICE.

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FRAME OR SUPPORT OF MOSQUITO-CURTAINS.

1,124,420. Specification of Letters Patent. Patented Jan. 12, 1915.

Application filed February 26, 1912. Serial No. 679,987.

To all whom it may concern:

Be it known that I, WILLIAM THOMAS GOUGH, a subject of the King of Great Britain, and a resident of Nottingham, in England, have invented a certain new and useful Improvement in the Frames or Supports of Mosquito-Curtains, of which the following is a specification.

This invention relates to mosquito curtains, and refers to improvements in folding frames for supporting such curtains.

Referring to the drawings, Figure 1. is an elevation, and Fig. 2. a plan of a frame constructed according to my invention. Fig. 3. is an elevation, showing the frame folded up.

Like letters indicate like parts throughout the drawings.

According to this invention, the top of a mosquito curtain K, is supported by means of arms A, preferably four in number, which are articulated to a center piece B. The arms A described are so disposed as to correspond with the diagonals of the rectangular top of the curtain K, so that their extremities can be secured to the respective corners of the same.

The arms A described, are connected to a suspension piece C situated above the center piece B, by means of links D of any convenient length, which are connected to the said suspension piece C, and jointed to the arms A at any convenient intermediate point A^1 in the length of the latter.

The top of the suspension piece C is provided with a hook or ring E, by means of which the whole framing is suspended, on the lower side it is provided with a pulley F, and the center piece B is suspended on a cord G, which passes over the said pulley F. By means of this cord G, the center piece B can be raised and lowered relatively to the suspension piece C, and the framing be opened and closed, the arms A folding upward when the center piece B to which they are articulated is pulled down as shown in Fig. 3. and opening out again when the said center piece B is raised, as shown in Figs. 1 and 2.

When the framing is fully extended, the center piece B is drawn up to a point which is about level with the free outer ends of the arms A, and extensions B^1 are formed on the said center piece B, which constitute stops for the arms A to rest upon, as shown in Figs. 1. and 2. and prevents them from falling below the required point. When in this position, the weight of the curtain K acting in conjunction with the stops B^1, locks the extended arms A of the framing, and no fastenings are required for this purpose.

In order to close the framing, the center piece B must be pulled down, and to conveniently effect this, the free end of the cord G previously described, is connected to a ring B^2 on the underside of the center piece B, so that the same cord G, thus serves to either raise or lower the said center piece B. The weight of the center piece B, and the inner ends of the arms A, serve to hold the framing in its closed position.

The framing described is preferably made of metal, the arms A, and links D, being for lightness constructed of either tubular, U shaped, or of any other convenient section.

The whole of the framing is situated within the top of the curtain K, except the suspension ring E on the suspension piece C, which passes through a hole in the center of the same, and the ends of the arms A are secured to the corners of the top of the curtain. As the curtain K rises when the framing is folded, it is raised clear of the ground, and can then be readily moved aside out of the way, and is therefore ready for opening out again, both of which processes can be effected in a moment, by a pull on the operating cord G.

What I claim as my invention and desire to cover by Letters Patent is:—

1. In a framing for supporting a mosquito curtain, the combination of an upper center piece which is attached to or suspended from a fixture above the curtain, suspension links having their upper ends jointed to the said center piece, a floating center piece below the upper center piece, arms on the outer ends of which the curtain is supported articulated to the floating center piece and jointed at about the middle of their length to the lower ends of the respective suspension links, and stops on the floating center piece to limit its upward movement, the several members and their connections being so disposed and balanced that the weight of the curtain serves to retain the supporting arms in their extended position, and the weight of the floating center piece serves to retain them in their folded position, substantially as described.

2. In a framing for supporting a mosquito

curtain, the combination of an upper center piece which is attached to or suspended from a fixture above the curtain, suspension links having their upper ends jointed to the said center piece, a floating center piece below the upper center piece, arms on the outer ends of which the curtain is supported articulated to the floating center piece and jointed at about the middle of their length to the lower ends of the respective suspension links, stops on the floating center piece to limit its upward movement, the several members and their connections being so disposed and balanced that the weight of the curtain serves to retain the supporting arms in their extended position, and the weight of the floating center piece serves to retain them in their closed position, a cord connected to the floating center piece, and a pulley on the upper center piece over which said cord is carried for the purpose of moving the supporting arms from one extreme position to the other, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM THOMAS GOUGH.

Witnesses:
H. C. SHELDON,
J. B. JAMSON.

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