M. W. HARRIS.

MOSQUITO NETTING CANOPY FRAME.

APPLICATION FILED JUNE 29, 1916.

1,231,735.

Patented July 3, 1917.

2 SHEETS—SHEET 1.

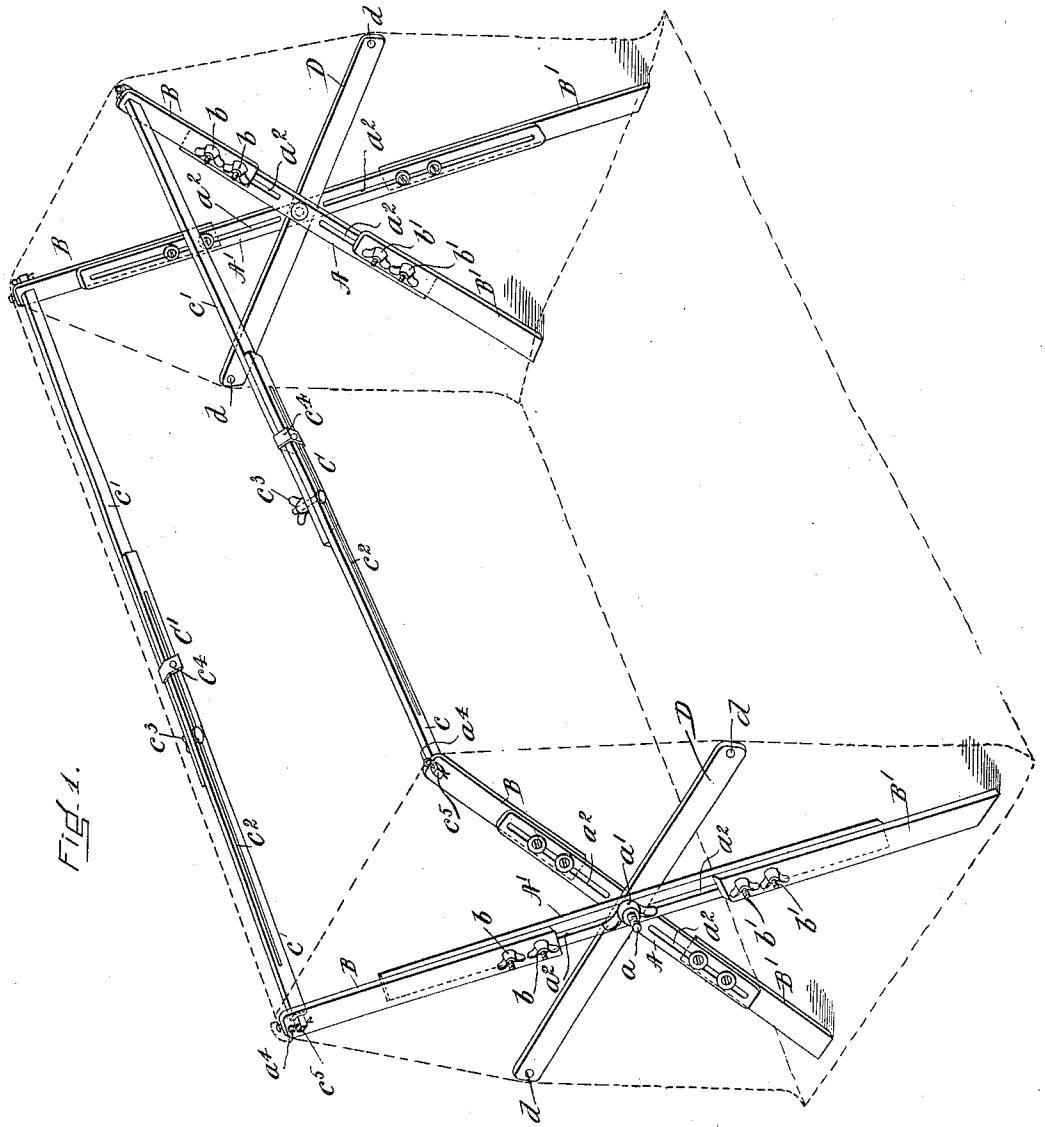


Fig. 1.

INVENTOR=
Mabel Waite Harris
by
her attorneys.

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2 SHEETS—SHEET 2.

Fig. 2.

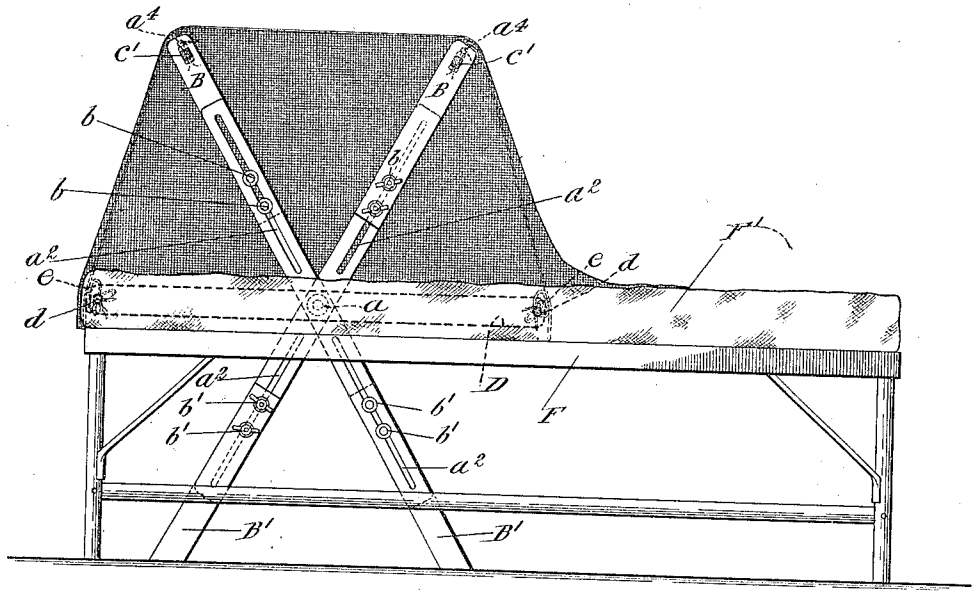
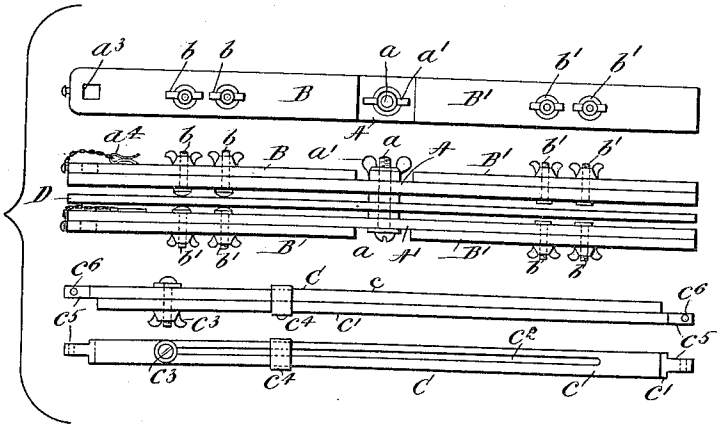


Fig. 3.



INVENTOR:

Mabel Waite Harris

by

Cooke Hayes

her attorneys.

UNITED STATES PATENT OFFICE.

MABEL WAITE HARRIS, OF NATICK, MASSACHUSETTS.

MOSQUITO-NETTING-CANOPY FRAME.

1,231,735. Specification of Letters Patent. Patented July 3, 1917.

Application filed June 29, 1916. Serial No. 106,714.

To all whom it may concern:

Be it known that I, MABEL W. HARRIS, of Natick, in the county of Middlesex and State of Massachusetts, a citizen of the United States, have invented a new and useful Improvement in Mosquito-Netting-Canopy Frames, of which the following is a specification.

My invention relates to netting frames or canopy supports used in connection with beds and cots, and is particularly adapted for use over the latter on camping trips.

The invention has for its object to provide a knockdown or portable frame embodying new features of adaptability, simplicity and efficiency. A further object of the invention is to provide means for keeping the netting spread at the sides of the bed so that it will not interfere with or blow over upon the cot in a high wind. In most devices of this type the cost of production has been considerably out of proportion to the amount of use obtained, and with this, also, in view I have invented the present construction, which is especially cheap to manufacture.

The invention will be understood by reference to the drawings in which it is shown in its simplest form, and in which—

Figure 1 is a view in perspective of the device in operative position, the netting being shown in dotted lines.

Fig. 2 is a longitudinal section of the device with the netting attached and cot in place, the cot being in elevation.

Fig. 3 shows top and side views of the end bars and connecting bars in portable position.

With a view to the cost of production I prefer to make use of wood in connection with the frame.

The side supports comprise frame bars A, A^1 which as shown are in the form of an X when opened for use, being pivoted together where they cross in the middle by bolts a held by thumb nuts a^1. Each bar A, A^1 is slotted as at a^2, both above and below the point of pivot. Attached to each side bar at its upper end is an extension bar B and at the lower end of each side bar is attached a similar bar B^1, each of these bars B, B^1 being adjustably held by the set screws b, b^1 which slide in the slots a^2.

Connecting these supports at the upper ends thereof are frame bars C, C^1, the bar C connecting the side bars A and the bar C^1 connecting the side bars A^1 in like manner. Each bar C, C^1 comprises parts c, c^1, the part c being slotted as at c^2 and the part c^1 being provided with a set screw c^3 to slide in the slot c^2 so that the length of the bars C, C^1 is easily adjustable. A collar c^4 also holds the parts c, c^1 together and acts as a guide for the parts c, c^1. At each end the bars C, C^1 are slightly reduced in size as at c^5 in order to fit openings a^3 cut in the upper ends of the side bars A, A^1. Each part c^5 preferably projects through to the outside of the end bar sufficiently far to allow a cotter pin a^4 to be inserted in a hole c^6 through it to hold it against displacement.

Fastened to the end pieces at the point of pivot by the same screw and nut a, a^1 are the bars D. Each bar D has a hole d, near each outer end to which the netting may be tied. When the device is in operative position (see Fig. 2) the bars D are horizontal.

The netting E, the seams of which are shown at E^1, is provided with tapes e so that when the netting is placed over the frame the tapes e can be tied through the holes d in the bars D, thus clamping the netting closely to the side of the bed at whatever level the bar D may be placed. By this means the occupant will not be disturbed by the netting blowing in over his face, while the device is rendered more stable as a whole. Other tapes may be used as desired.

The height of the bar D varies according to the spread of the end bars, but ordinarily the bar should be about on a level with the surface of the bed to obtain the best results. In Fig. 2 the bar is shown slightly above the level of the mattress F^1 on the cot F. It will be noted that the height of the bar D may be adjusted by adjusting the extensions B^1 and that the height of the canopy above the bed may be adjusted by adjusting the extensions B, and the frame may be adjusted to the width of the bed by adjusting the length of the bars C, C^1. The adjustment of the angle of the bars A, A^1 will change the width of the section of the canopy which passes across the bed Thus adjustment is provided for all situations, and at the same time the device is easily and compactly folded.

In Fig. 2 I have shown the preferred way of using my device. It is placed across the head of the cot or bed, being adjusted so that the side bars are on a level with, and

in contact with the mattress. The netting is preferably of the size and shape indicated in dotted lines in Fig. 1, being adjusted and held to the cross bars D and at various points to the frame. It is tucked under the mattress at the side and the part which falls toward the foot of the bed is free and lies on the bed clothes. To get underneath the canopy the tapes at *d* on the end of one of the side bars D are untied and may be readily tied again when the occupant is under the canopy.

I do not intend to limit myself to the precise construction shown, for it is obvious that various changes in form and construction may be made and yet be within the scope of my invention.

What I claim as my invention is:—

1. A canopy of the kind described adapted to extend across a bed from side to side, said canopy comprising two side supports each comprising two adjustable cross bars pivotally connected at their center and having a horizontal bar connected thereto at their junction, said side supports being connected by an adjustable connection whereby the canopy can be adjusted to the width of the bed.

2. A bed having a mattress in combination with a canopy adapted to straddle the bed and comprising mosquito netting or the like, a support to hold said netting comprising two pairs of cross bars, the bars of each pair being pivotally connected to each other and carrying a horizontal bar, said first-named bars being extensible, the bars of one side support being adjustably connected with the bars of the other side support whereby the canopy may be adjusted to the width of the bed, said mosquito netting being attached to said side supports and being adapted to be tucked under said mattress.

MABEL WAITE HARRIS.

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