

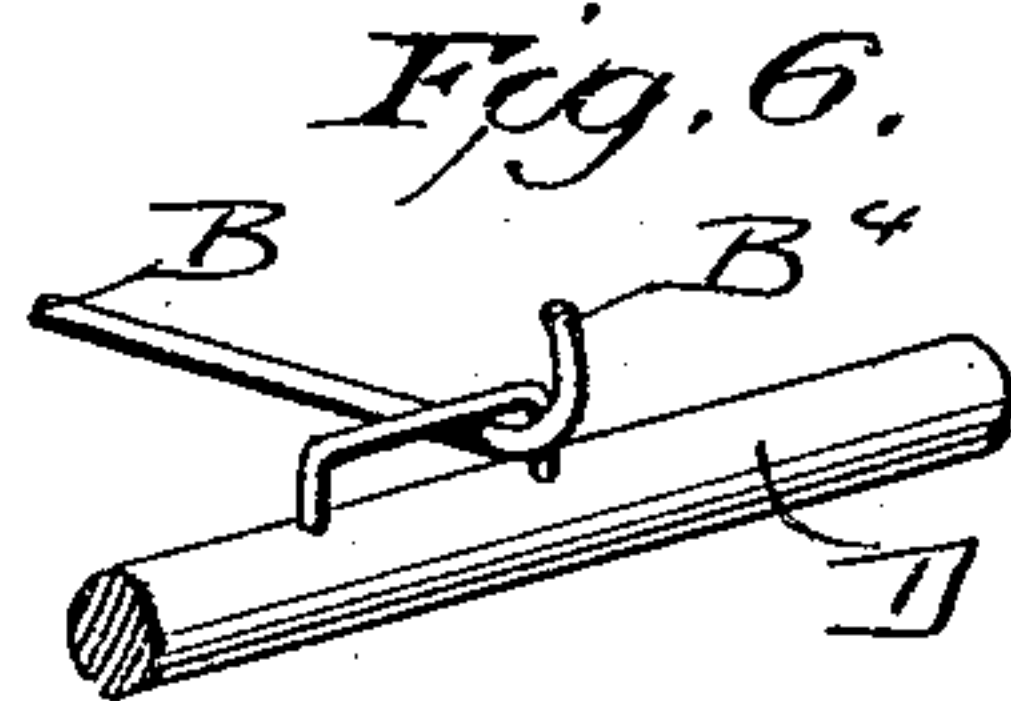
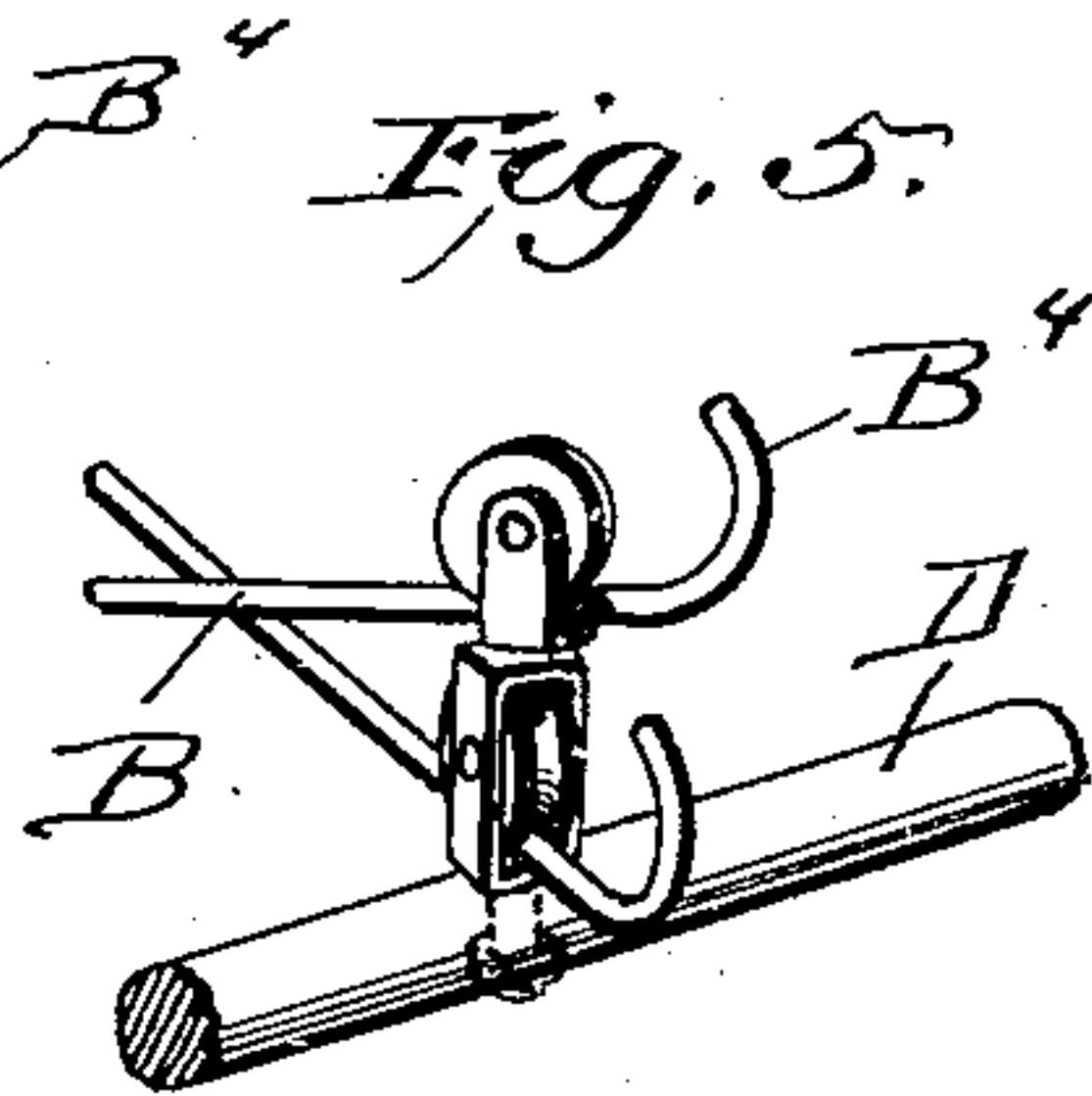
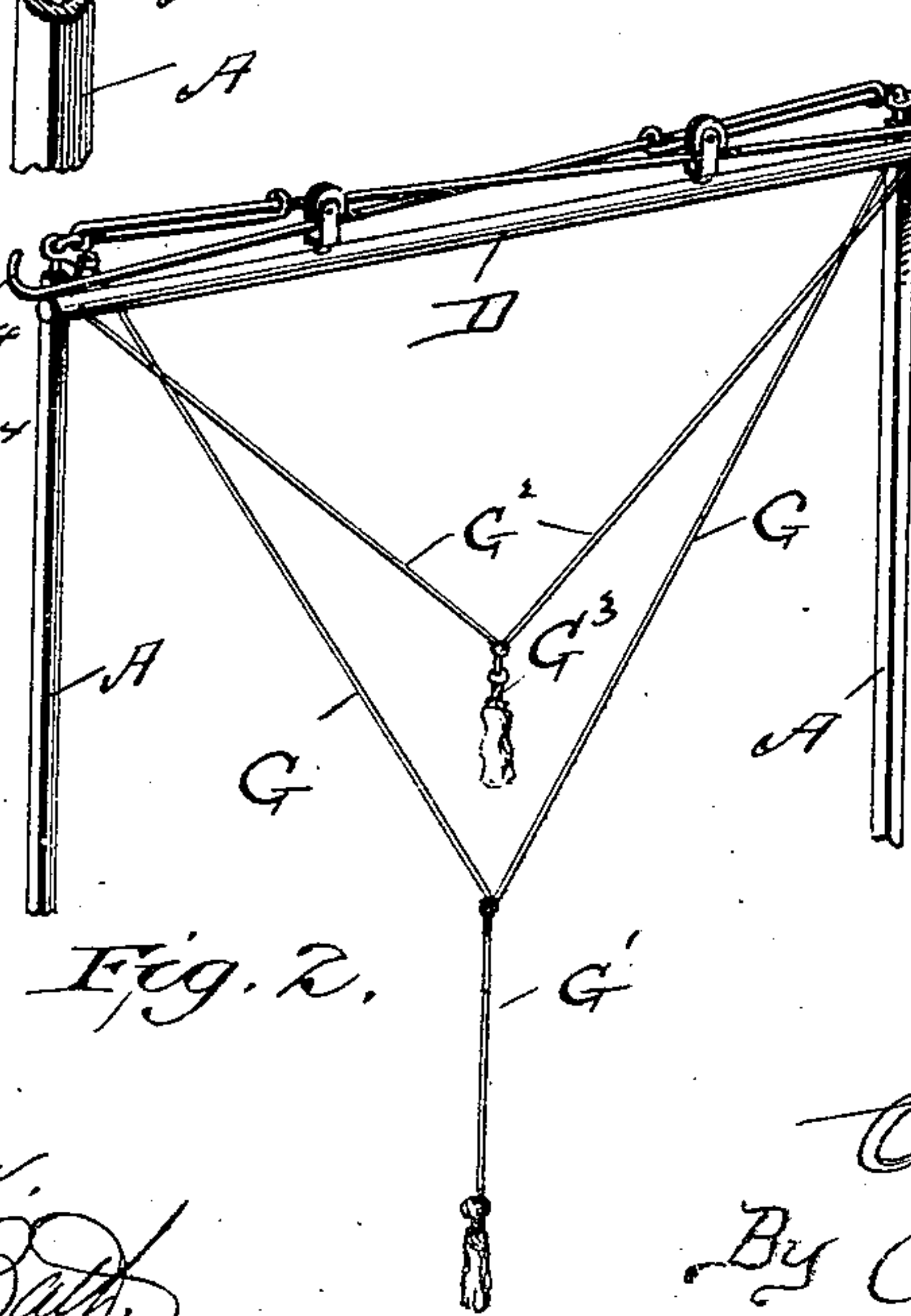
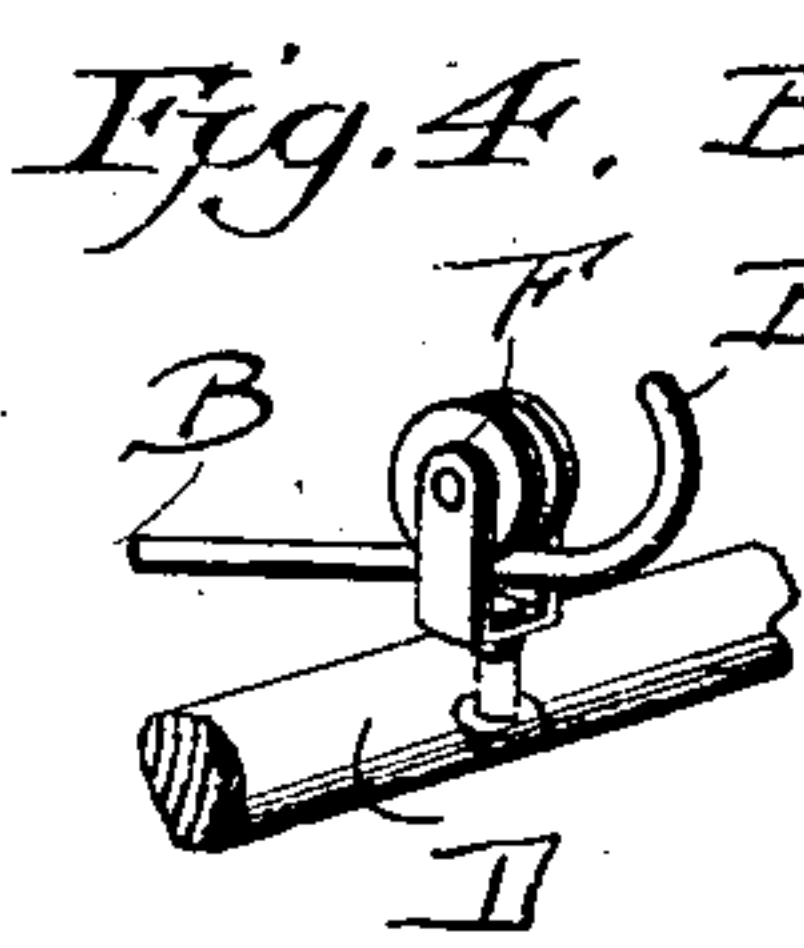
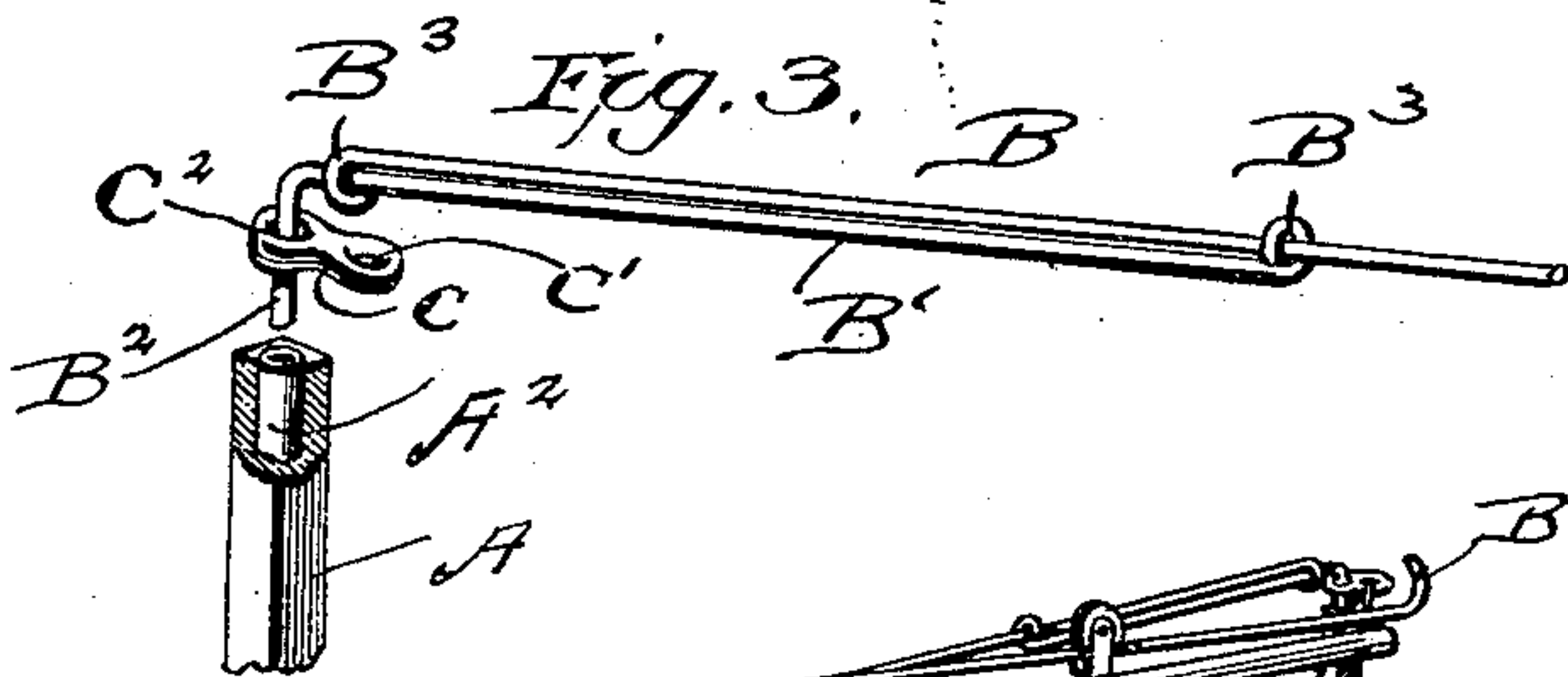
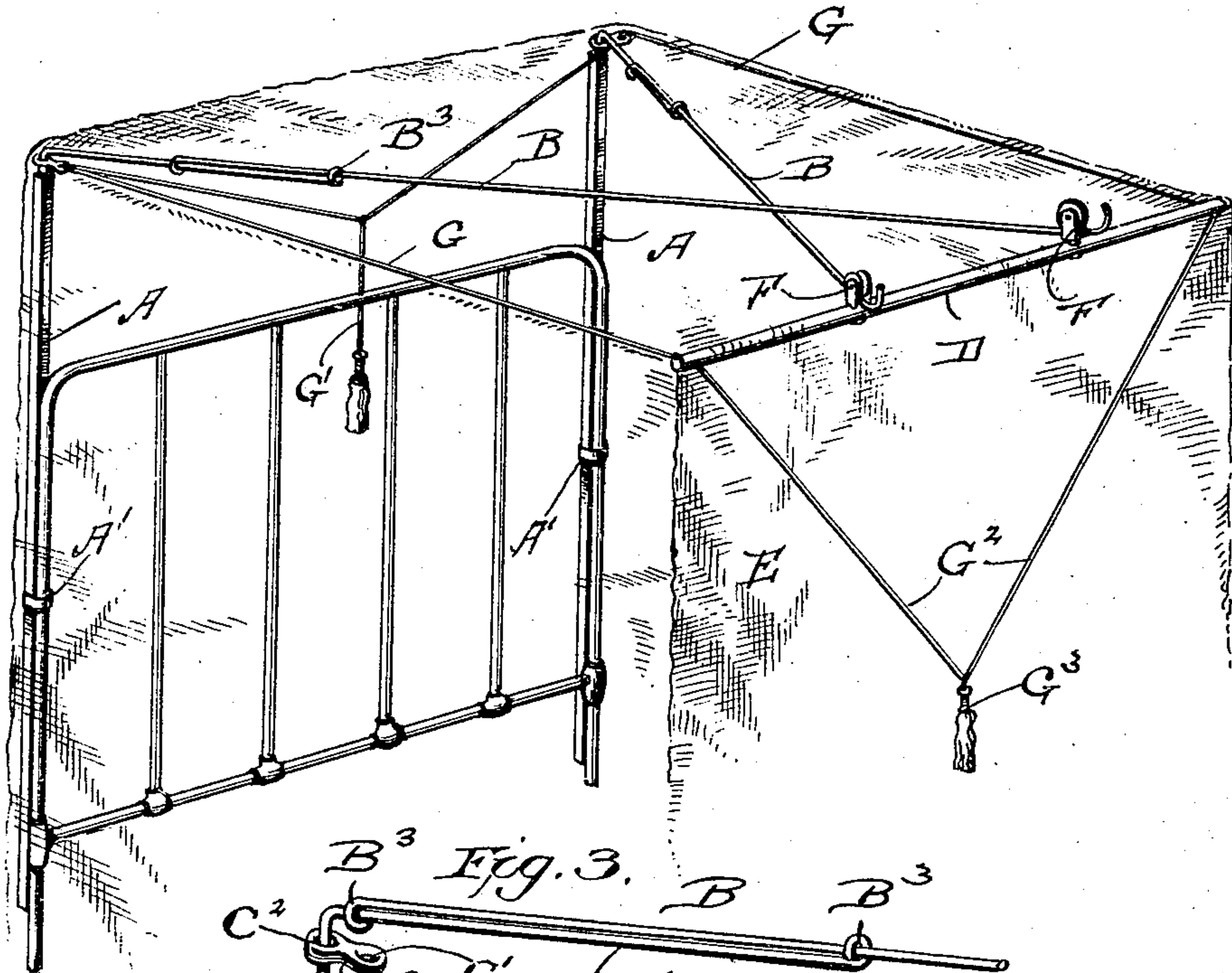
No. 870,541.

PATENTED NOV. 12, 1907.

C. D. BRUMLEY.
BED CANOPY.

APPLICATION FILED JULY 2, 1906.

Fig. 1.



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UNITED STATES PATENT OFFICE.

CHARLES D. BRUMLEY, OF NORFOLK, VIRGINIA.

BED-CANOPY.

No. 870,541.

Specification of Letters Patent.

Patented Nov. 12, 1907.

Application filed July 2, 1906. Serial No. 324,461.

To all whom it may concern:

Be it known that I, CHARLES D. BRUMLEY, a citizen of the United States, residing at Norfolk, in the county of Norfolk, in the State of Virginia, have invented a new and useful Improvement in Bed-Canopies, of which the following is a specification.

This invention relates generally to mosquito nets or canopies, and more particularly to an improved construction of frame for supporting the net or canopy.

The object of the invention is to provide an exceedingly cheap and simple construction of supporting frame which can be quickly and easily attached to any and all kinds of bed steads and which can be quickly and easily opened or closed as desired.

Another object of the invention is to provide a frame of such construction that when open the canopy will be properly supported and envelop the entire bed, and also of such construction that when folded will occupy very little space and will not project beyond the side post of the head board.

Another object of the invention is to provide a mosquito canopy which will entirely avoid the employment of the ceiling fixtures now in common use.

With these various objects in view my invention consists essentially in the employment of a pair of intersecting or cross rods pivotally connected at their rear ends to uprights fastened to the head board of the bed stead, the forward ends of said rods supporting a cross bar, said cross bar being movable back and forth upon the rods and means for moving said cross bar back and forth and simultaneously opening or closing the intersecting or cross rods, and the net or canopy connected to and supported upon the frame and adapted to be opened or closed by the opening or closing of the frame.

The invention consists also in certain features of construction hereinafter fully described and pointed out in the claims.

In the drawing forming a part of this specification: Figure 1 is a perspective view showing the practical application of my invention, portions of the net being broken away in order to disclose the details of the construction. Fig. 2 is a detail perspective view showing the uprights, the rods pivoted thereto the front cross bar and cords for operating said parts, the rods and cross bar being shown as folded. Fig. 3 is a detail perspective view showing the manner of the pivoting of one of the extensible cross rods. Fig. 4 is a detail perspective view showing the swivel connection between the free end of the rod and cross bar, and Figs. 5 and 6 show slightly modified forms of connection.

In carrying out my invention I employ two uprights A which are preferably made of wood, said uprights being connected to the side post or corner post of the head board by means of any suitable form of clamping device A'. The upper end of each upright is bored

out or provided with a socket in which is fitted a bushing A² and fitting into this bushing A² is the downwardly bent end B² of the rod B, said rod being of wire of suitable dimensions, and this rod B is preferably made in two sections B' which slide upon each other for the purpose of increasing or decreasing the length of the rod, the ends of the sections being coiled around each other as shown at B³. The downwardly projecting end B² passes through the rear eye C² of a double gromet C the purpose of which will appear hereinafter.

D indicates a cross bar preferably made of light wood and to which the mosquito net or canopy E is connected, said net or canopy being rectangular in form and the rear corners thereof are fitted over the upper ends of the uprights, the cross rods B being arranged upon the top of the canopy and the ends B² pass through eyelets arranged in the net and the gromet C and arranged upon the interior of the net as most clearly shown in Fig. 1. The cross bar D is provided with two swivel pulleys F through which the free ends of the cross rods B pass, the extreme ends being turned up as shown at B⁴ in order to prevent the cross bar being disconnected from the cross rods by being pulled out too far. By having the cross bar D supported from the rods B by means of swivel pulleys the said cross bar can be moved back and forth for the purpose of closing or opening the net or canopy, and as the said cross bar is so moved the rods B will fold or unfold upon each other as most clearly shown, the free ends running freely in the swivel pulleys which turn according to the direction assumed by the rod passing there-through.

For the purpose of opening and closing the net I employ cords G which are connected to the opposite ends of the bar D passing along the side edges of the net or canopy and then downwardly through the forward eye C' of the gromet C and are connected to a common pull cord G' which rests within the net or canopy in the center of the head board and within easy reach of the occupant of the bed. While pulling upon the cord G' the pull is communicated to the cords G and the rod D is drawn up folding the cross rods B and in case the free ends of the rods project beyond the end post of the head board the sections of the rod can be pushed in as most clearly shown in Fig. 2. The cords G are extended through the cross bar D as shown at G² and are connected to a suitable tassel or handle G³ by means of which the frame or canopy can be pulled open whenever desired.

In Fig. 5 I have shown the two swivel pulleys arranged one above the other but the operation is exactly the same, and in Fig. 6 I have shown an elongated staple which can be used in place of the swivel pulleys, the operation in this case being also the same as the swivel pulleys.

The canopy and supporting means constructed as

herein shown and described can be quickly and easily attached to any and all kinds of beds and can be quickly and easily opened or closed, and furthermore the frame constructed as herein shown and described is exceedingly cheap, simple and durable.

Having thus fully described my invention, what I claim as new and desire to secure by Letters Patent, is:—

- 10 1. The combination with the uprights, of the side rods pivotally connected thereto and adapted to swing horizontally, a cross rod provided with pulleys mounted on said rods together with means for moving the cross rods back and forth.
- 15 2. The combination with uprights having sockets formed in their upper end, of extensible side rods provided with angled ends mounted in said sockets, a cross rod provided with pulleys mounted on said rods, the canopy connected to the cross rod, and uprights, and means for moving said cross rod, back and forth, for the purpose described.
- 20 3. The combination with the uprights, the side rods pivotally connected to said uprights and adapted to cross each other, the cross rod provided with pulleys mounted on the free ends of the side rods, the canopy connected to the sliding cross rod and the uprights and the cord for moving the
- 25 cross rod back and forth.
4. The combination with the uprights, of the side rods connected to the upper end thereof and adapted to turn thereon, said side rods crossing each other, the sliding cross rod provided with swiveled pulleys mounted on the
- 30 free ends of the side rods, the canopy connected to the cross rod and uprights and the cords connected to the ends of the cross rod and adapted to lead said cross rod back

and forth and simultaneously fold and unfold the canopy and side rods.

5. The combination with the uprights, of the extensible side rods pivotally connected to the upper ends of said uprights the double gromets, the cross rod, suspended from the side rods, the swivel pulleys carried by the cross rod and through which the free ends of the side rods pass, the canopy connected to the cross rod, the cords connected to the cross rods, said cords being connected and arranged substantially as described.

6. The combination with uprights having sockets formed in their ends, of extensible side rods provided with angled ends mounted in said sockets, pulleys mounted on said side rods carrying a cross-rod and means for moving said cross-rod back and forth, for the purpose described.

7. The combination with uprights having vertical sockets formed in their ends, of rods provided with angled ends mounted in said sockets, rods slidably mounted on said rods, pulleys mounted on said rods carrying a cross-bar and means for moving said bar back and forth, for the purpose described.

8. The combination with uprights provided with sockets, of side rods having their inner angled ends pivotally mounted in said sockets, a cross bar suspended from the outer angled ends of said side rods, double gromets mounted upon and having their rear eyes pierced by said inner angled ends, of said rods, and cords connected to said cross-bars adjacent its ends passing down through the forward eyes of said gromets, for the purpose described.

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