

W. W. WHITEHEAD.
Frame for Bed-Canopies.

No. 223,687.

Patented Jan. 20, 1880.

Fig. 1.

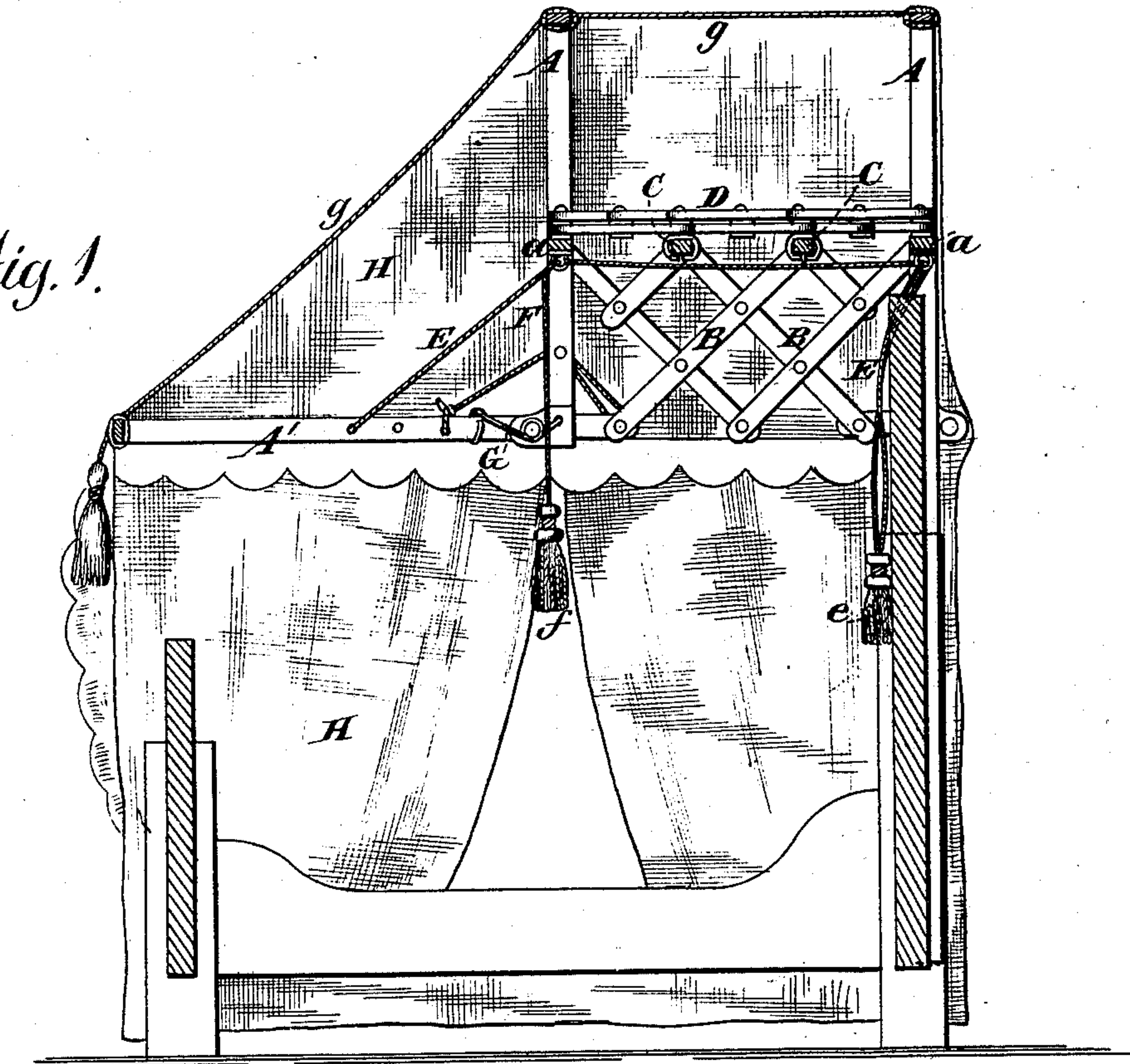


Fig. 3.

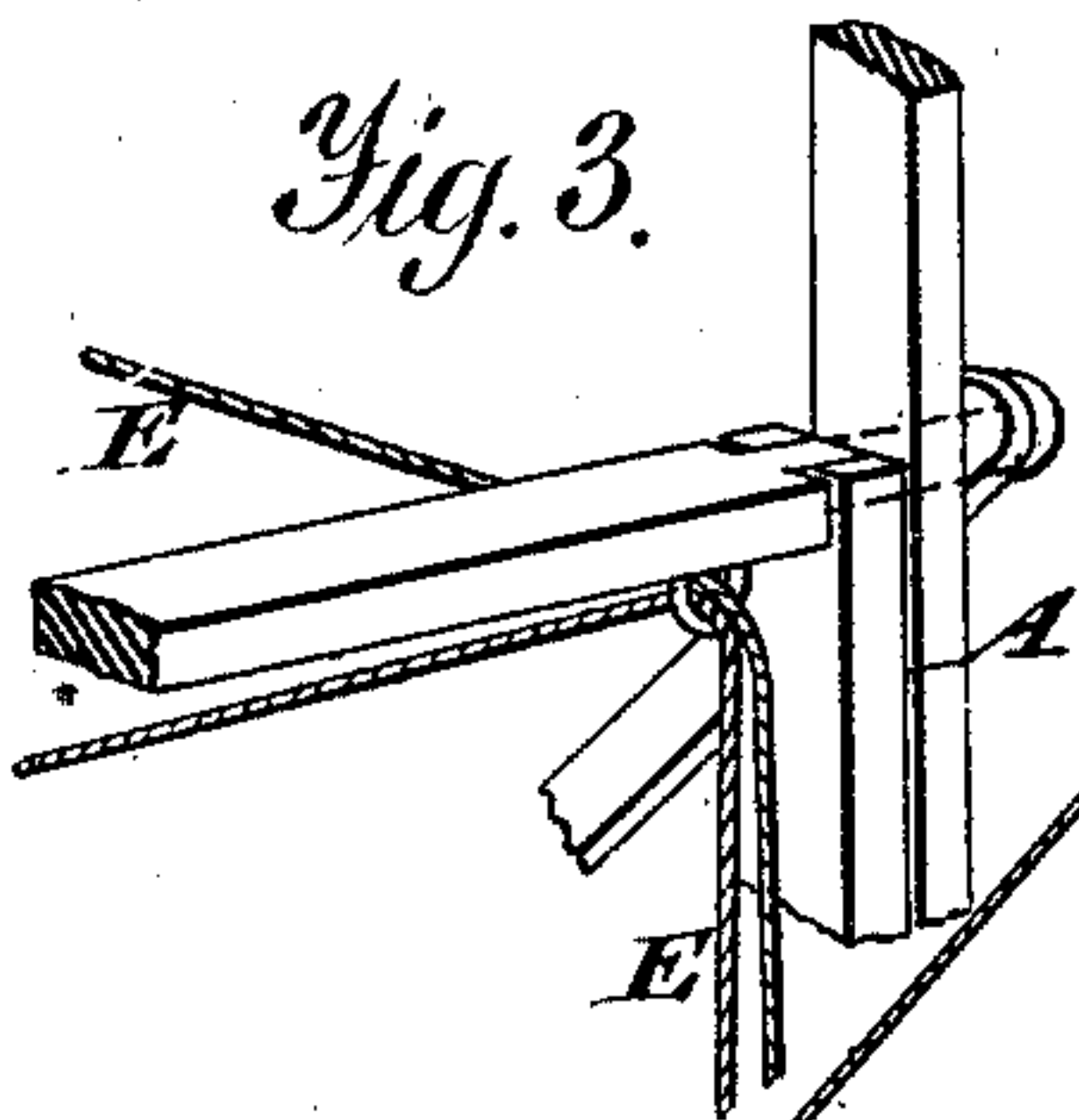
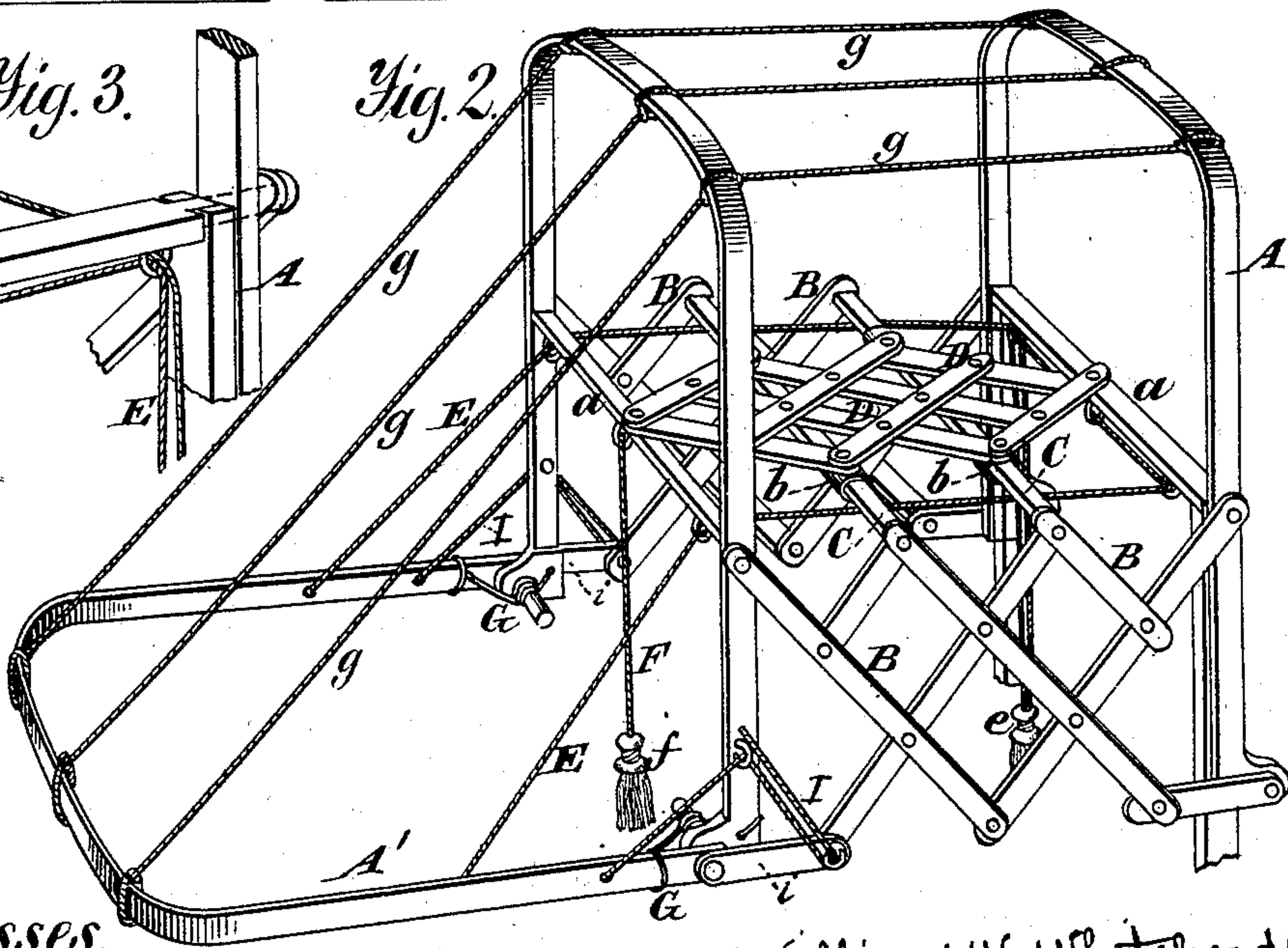


Fig. 2.



Witnesses.

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UNITED STATES PATENT OFFICE.

WILLIAM W. WHITEHEAD, OF BROOKLYN, NEW YORK.

FRAME FOR BED-CANOPIES.

SPECIFICATION forming part of Letters Patent No. 223,687, dated January 20, 1880.

Application filed September 24, 1879.

To all whom it may concern:

Be it known that I, WILLIAM W. WHITEHEAD, of Brooklyn, in the county of Kings and State of New York, have invented certain
5 new and useful Improvements in Frames for Bed-Canopies; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to
10 make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification, and in which—

Figure 1 is a sectional elevation of my improved bed-canopy. Fig. 2 is a perspective
15 view of the same, and Fig. 3 is a detail view of the same.

This invention has relation to certain improvements in canopies specially designed for
20 beds; and it consists in such an adjustment of the parts of the canopy as to permit of the ready folding and unfolding of the same and its expeditious attachment and detachment from the bed, substantially as hereinafter more
25 fully set forth, and particularly pointed out in the claims.

In the accompanying drawings, A A A' mark three bows, two upright and one adapted to occupy a horizontal position. While the
30 upright ones are to be disposed at the head of the bed, the horizontal bow is designed to rest at one end at a point directly above the foot of the bed, thus encompassing the whole length of the bed. The two upright bows are con-
35 nected together by a series of extensible and compressible side bars, B B, which are themselves connected together at the top by means of cross-bars C. A series of similar extensi-
40 ble and collapsible bars, D D, with their extremities connected to the cross-bars *a a* of the bows A A, are also disposed upon and connected to sleeves *b b*, sliding upon the cross-bars C of the bars B B.

While the primary object of the sleeves *b b*
45 is to permit of the expansion and contraction of the top bars or braces, D, they also serve to prevent the side bars, B, with their braces D, from having sidewise movement as they are opened and closed, thereby keeping them in a
50 straight line.

By means of the cords or wire E, connect-

ing the horizontal bow A' to the bows A A, and also connecting the individual bows A A together, as seen in the figures of the draw-
ings, and having the tassel or weight *e*, if de- 55 sired, the respective bows can all be folded together.

The cord F, with or without the tassel or weight *f*, is adapted, by the manner of its con-
nection with the bows A A, to permit of the 60 separating of the said bows one from the other, which effects the unfolding of the canopy.

The bow A' is extended to its horizontal position automatically by means of the spring or
springs G, applied around its pivot or pivots, 65 connecting it to one of the bows A, with its ends fastened respectively to the said bows, as clearly seen in Fig. 2.

Other cords or wires, *g g*, may be fastened to and stretched across the bows A A A', as seen 70 in Figs. 1 and 2, to afford a better support for the covering or net H, placed over the same, as seen in Fig. 1. The net can be secured in place upon the bows in any known way.

i i are links connected to the pivots of the 75 horizontal bow and to the side bars. The extreme inner ends of the horizontal bow A' are pivoted to the lower ends of one of the bows A. A cord, I, on each side of the bows is con-
nected to the front bow or one of the upright 80 bows, thence passed through an eyebolt on the link *i*, thence through a second eyebolt on the upright bow, and is finally passed and secured to a point on the horizontal bow distant from
its pivotal point. By this arrangement the 85 bow A' will be held in a vertical position when folded together with the other bows as against the action of the springs, which, when the parts are extended, return the bow A' to a
horizontal position. 90

Though particularly adapted to canopies for
beds, my invention or improvement can be
put to other uses, such as awnings for shade
purposes, &c.

Having thus fully described my invention, I 95
claim and desire to secure by Letters Patent—

1. The combination, with the bows A A A' and the side expansible and contractible bars, of the folding cord and automatically unfold- 100
ing or extending spring, substantially as and for the purpose set forth.

2. The combination, with the bows A A, whose side bars are connected together at the top by cross-bars, of the extensible and collapsible braces D, connected to said cross-bars
5 by sleeves, substantially as and for the purpose set forth.

3. The combination of the upright bows A A, horizontal bow A', folding and unfolding cords or wires E F, spring G, top and side ex-
10 pansible and contractible bars, cross-bars C, and sleeves b b, substantially as and for the purpose set forth.

4. The combination, with the bows A and A'

and the bow-operating spring, of the cross-bars B B, the link i, and the cord I, connected to the
15 bow A' and passing through an eyebolt attached to the bow A, substantially as and for the purpose set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 17th day of
20 September, 1879.

WM. W. WHITEHEAD.

Witnesses:

JOSEPH FORREST,
JOS. R. EDSON.