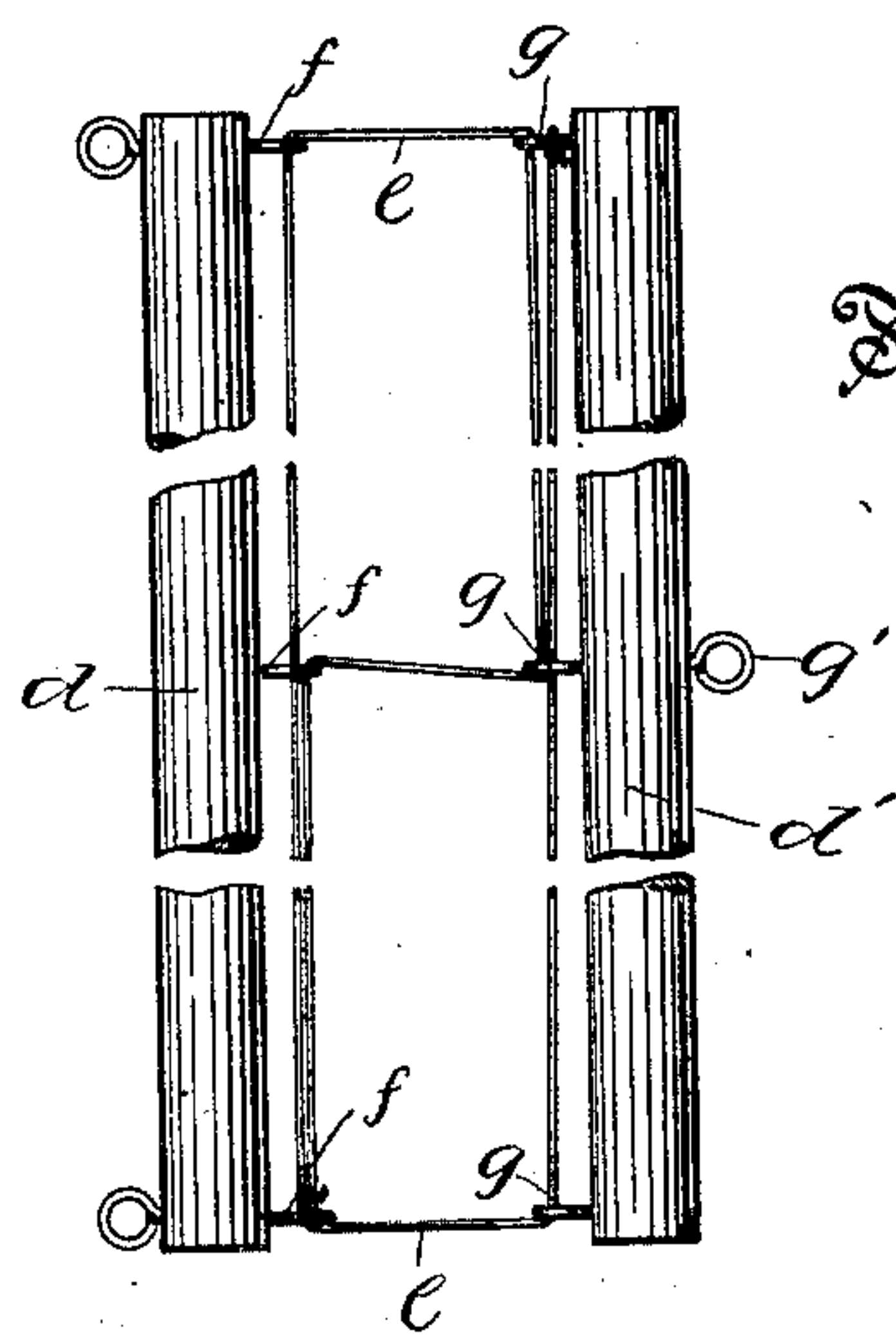
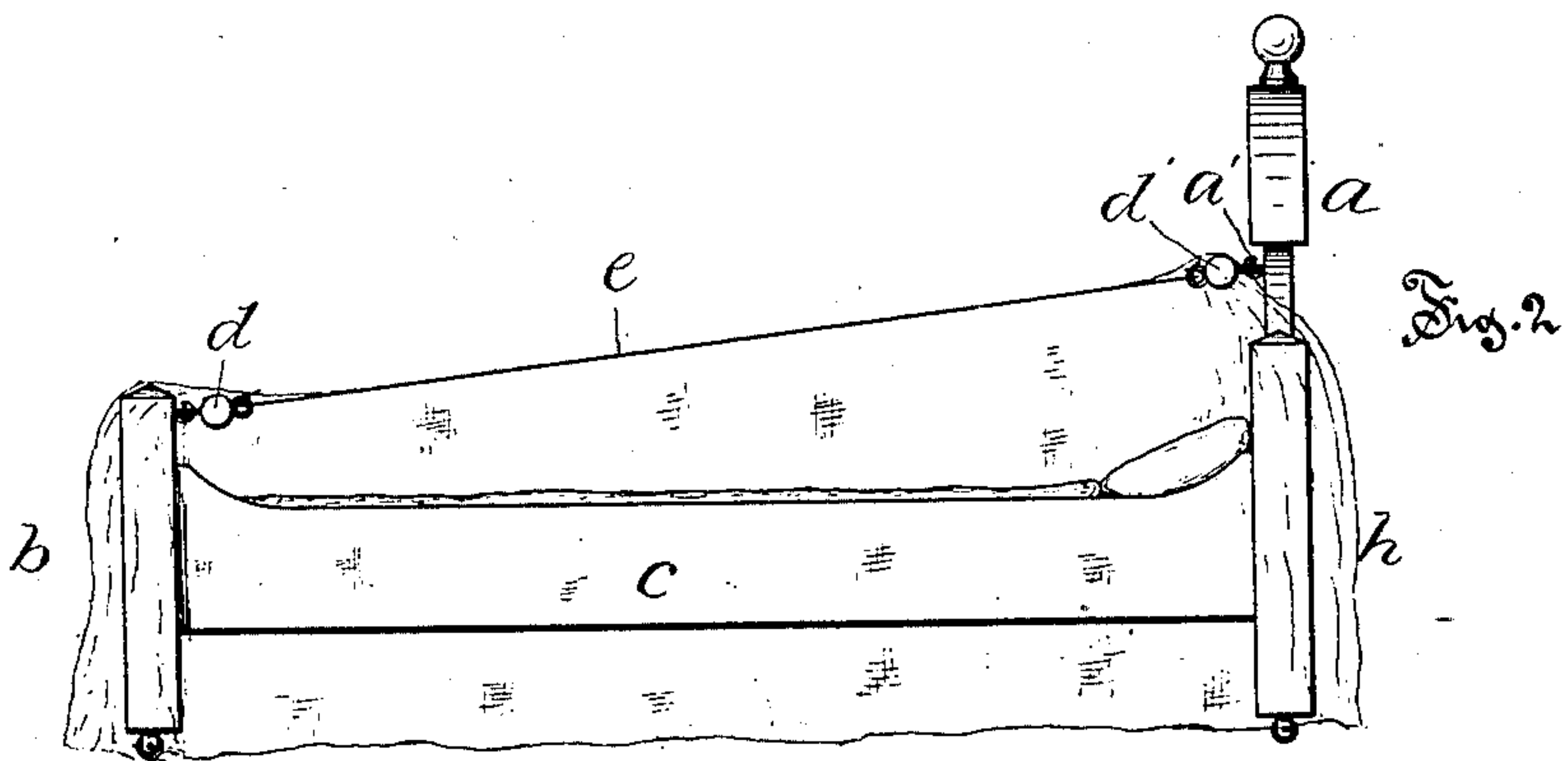
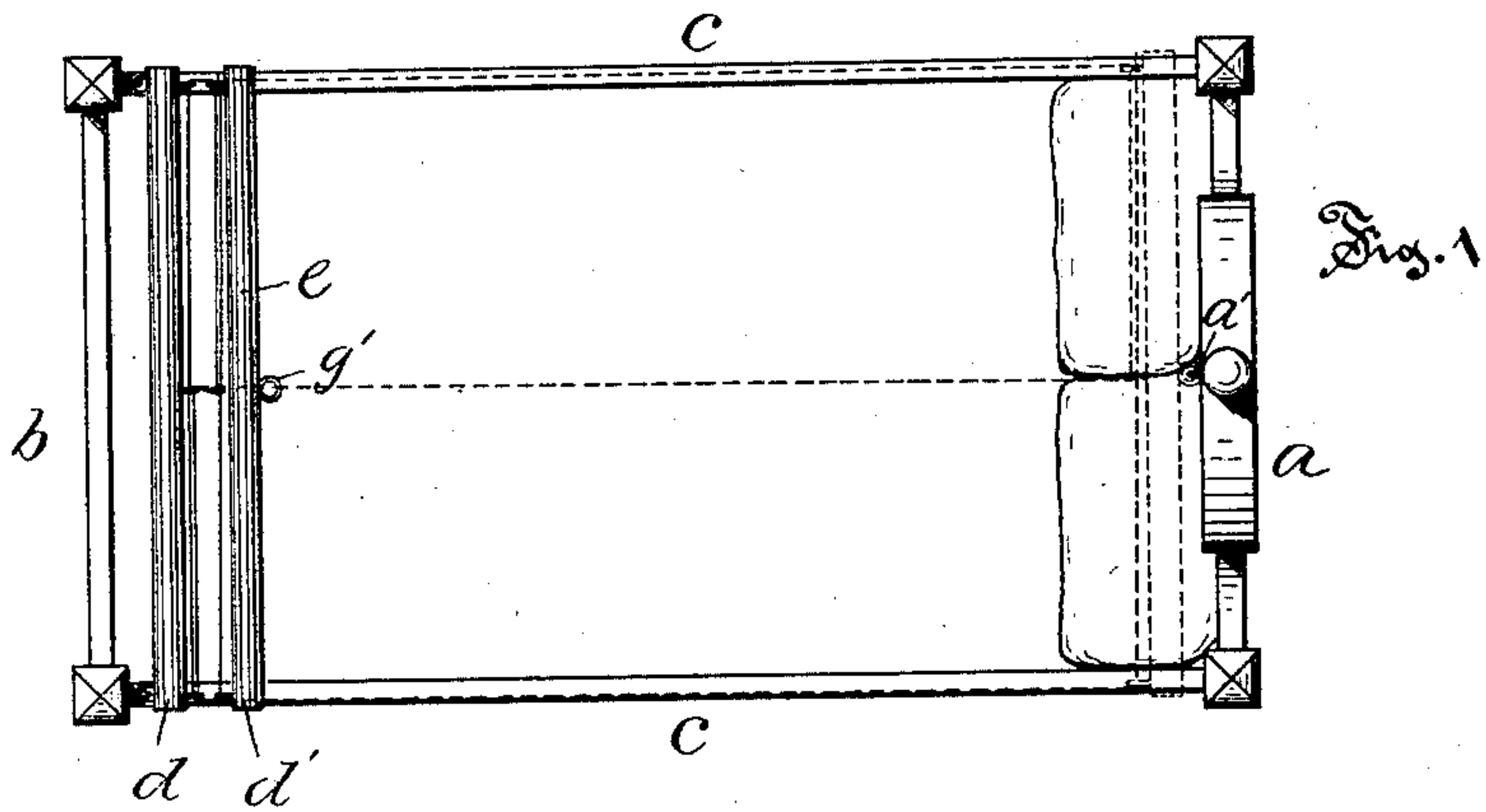


(No Model.)

J. P. SMITH.
MOSQUITO BAR CANOPY.

No. 318,667.

Patented May 26, 1885.



Witnesses
W. M. Forkman.
Ed. F. Dimock.

Inventor
Joseph P. Smith
By Simonds & Burdett
Attys.

UNITED STATES PATENT OFFICE.

JOSEPH P. SMITH, OF GLASTONBURY, CONNECTICUT, ASSIGNOR OF ONE-HALF TO CHARLES SNOW, OF SAME PLACE.

MOSQUITO-BAR CANOPY.

SPECIFICATION forming part of Letters Patent No. 318,667, dated May 26, 1885.

Application filed March 17, 1884. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH P. SMITH, of Glastonbury, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Mosquito-Bar Canopies; and I do hereby declare that the following is a full, clear, and exact description thereof, whereby a person skilled in the art can make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

Like letters in the figures indicate the same parts.

Figure 1 is a plan view of a bed fitted with my improved device, the mosquito-netting being omitted from this view. Fig. 2 is a side view of the same, but showing the netting. Fig. 3 is a detail view, on an enlarged scale, of the cross-bars, showing the method of interlacing the elastic cords.

My invention relates to the class of canopies which are so attached to the frame of a bed as to be readily extended to cover the bed and its occupants, or to be folded back in a position where it is out of the way when the bed is to be made up.

It consists in the special combination and arrangement of the cross-bars and elastic connecting-cords, as more particularly hereinafter described.

In the accompanying drawings, the letter *a* denotes the head-board of a bed; *b*, the foot-board; *c*, the side bars; *d*, a fixed cross-bar; *d'*, a movable cross-bar; *e*, an elastic cord, rove back and forth through the eyebolts or pulleys *f* and *g*, fast to the respective cross-bars. By the term "elastic cord" is meant the common and well-known article sold in open market under that name. It is usually made by covering a piece or strand of india-rubber with a coating of thread of linen, cotton, silk, or the like closely knitted or braided about it. The cord is extensible under a pulling strain to a certain degree, and when this strain is removed the cord shortens up, owing to the contraction of the india-rubber center. These cross-bars may be of wood or any other suitable material, the fixed bar *d* hav-

ing means for connecting it to the bed-frame near the foot-board and the cross-bar *d'*, having means, as the eye *g'*, for temporarily connecting it to the head-board, as by means of the hook *a'*, fast in the latter. The netting *h* may be of sufficient size to cover the bed and extend to the floor over the foot-board and at each side of the bed, when extended, in such manner as to exclude mosquitoes and the like. This netting in its extended position is shown in Fig. 2, the elastic cord *e* supporting it above the bed between the cross-bars, and when the movable bar *d'* is released from the hooks the contraction of the elastic cords draws it back and the netting is folded up over the foot-board.

The cross-bars *d* *d'* are connected by means of the elastic cord *e*, one end of which is fastened at a point near one end of the bar *d*, and the cord passed through the pulleys or eyes *f* to the other end of the bar; then carried across to bar *d'* through a pulley or fixed eye, *g*, along the bar to another eye, through the latter, and across to bar *d*; thence through the eye near which the cord was first made fast; thence across to bar *d'* and along it to the farther end, where the other end of the cord is fastened. This arrangement connects the bars by a sufficient length of elastic cord to allow of their separation for a considerable distance, as between the head-board and foot-board of a bed-frame, without so stretching the cord as to prevent its contracting and drawing the bars near together when it is released. This method of arranging the cord on the cross-bars is clearly illustrated in Fig. 3.

My invention is equally applicable to any piece of furniture with which mosquito bar or netting is used.

I claim as my invention—

1. In combination, a bed-frame, the head and foot boards bearing hooks or like means of support, cross-bars *d* and *d'*, bearing loops or eyes for engaging the hooks on the bed-frame, the elastic cord *e*, connecting the cross-bars and rove back and forth between them, substantially as described, and the netting *c*, connected to the bars and supported in part by

the cords when extended, all substantially as described.

2. As a new article of manufacture, a device for supporting mosquito-netting or the like fabric, consisting of bars *d* and *d'*, each bearing hooks, loops, or like means for attachment to a frame or standard, and each bar bearing also a plural number of pulleys

or eyes, and connected by an elastic cord, *e*, rove back and forth through the pulleys or eyes, all substantially as described.

JOSEPH P. SMITH.

Witnesses:

LAWRENCE V. H. RISLEY,
WILLIAM S. GOSLEE.