

No. 614,473.

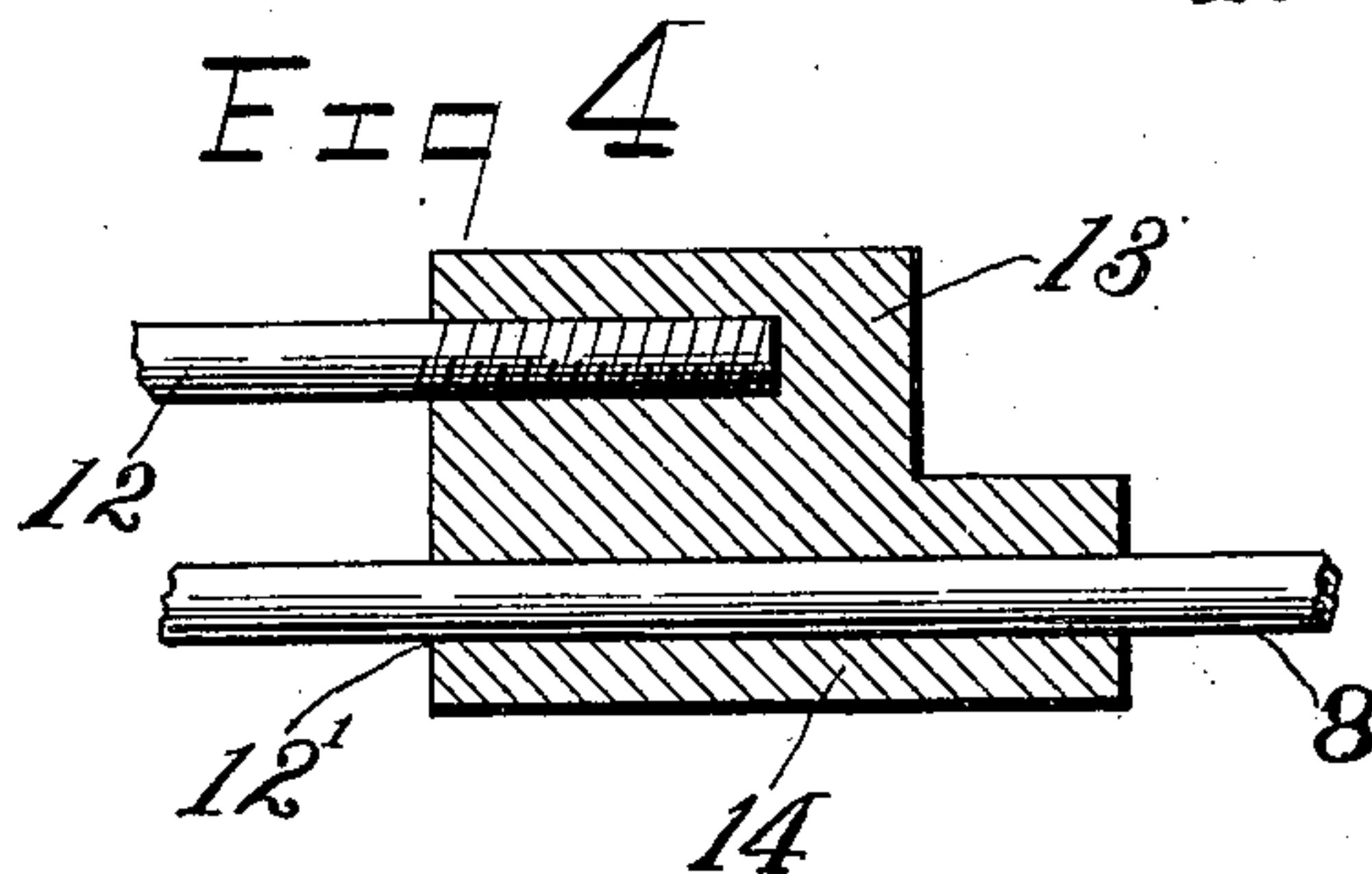
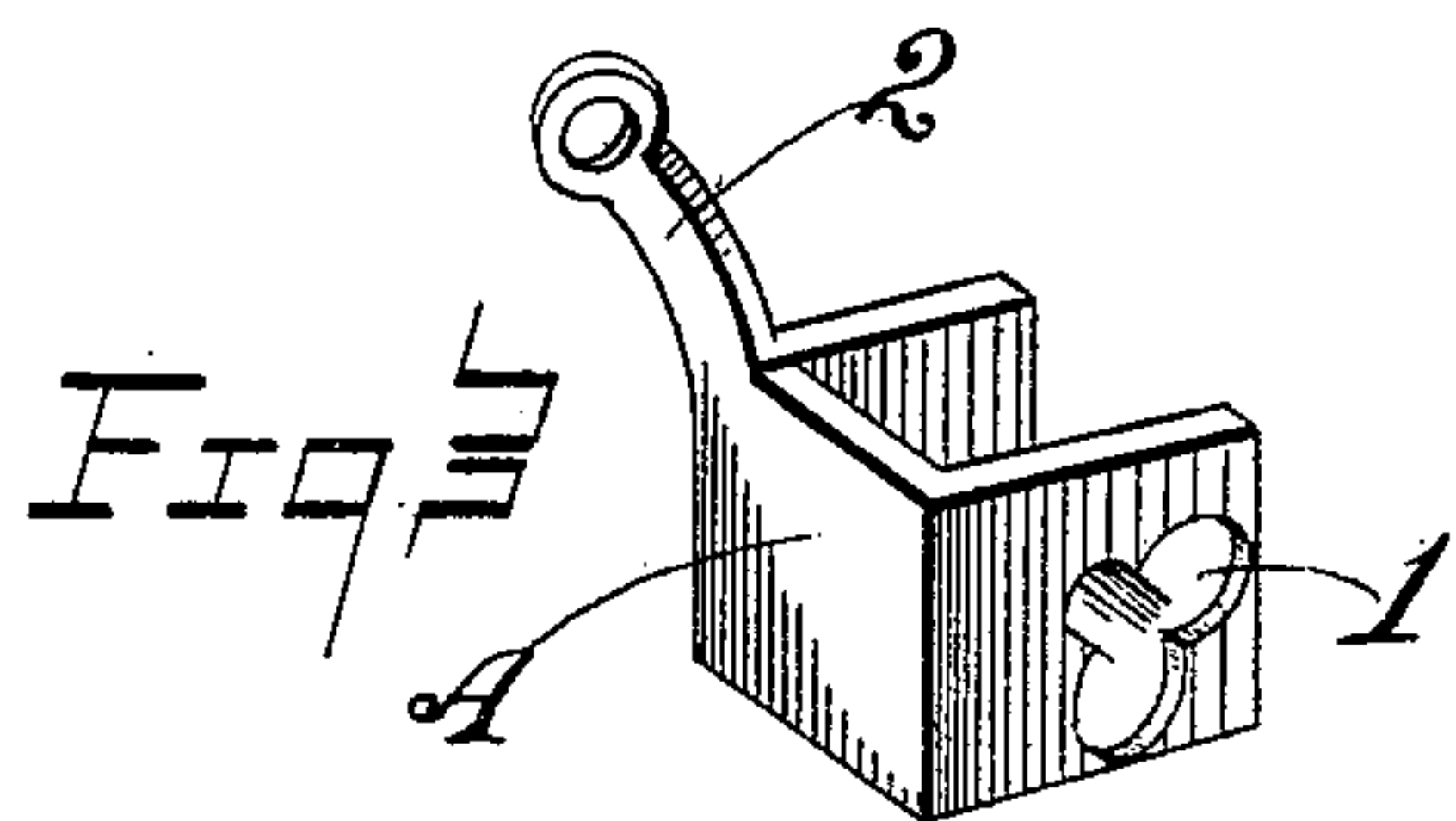
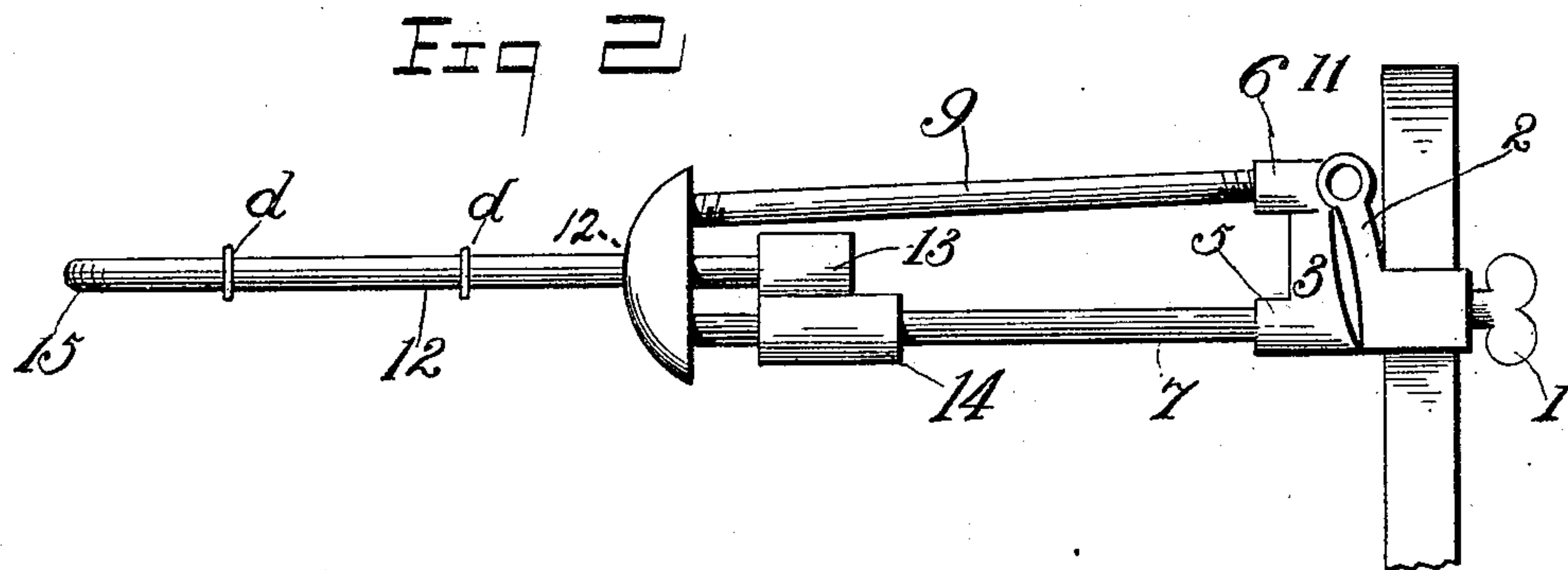
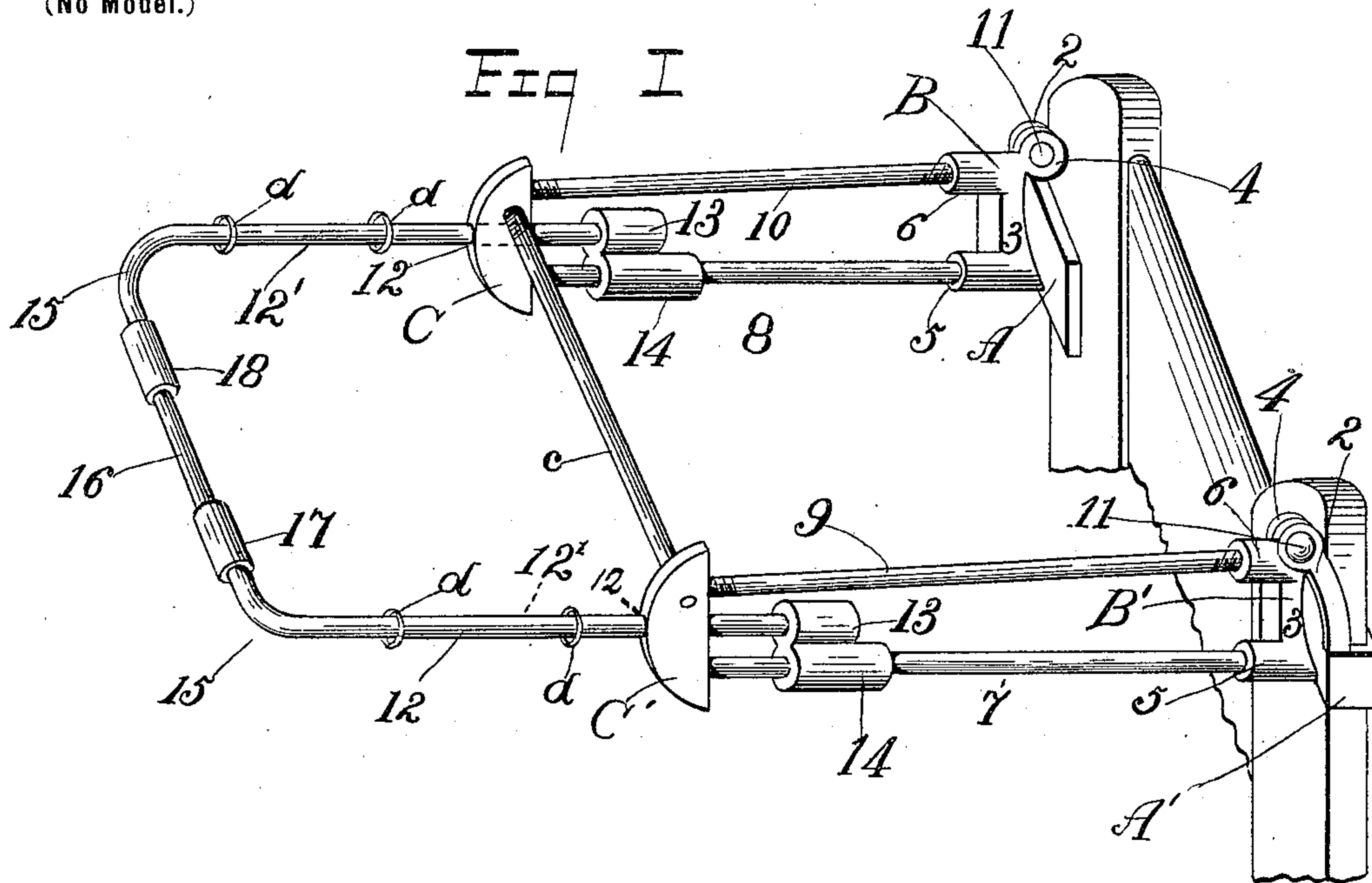
Patented Nov. 22, 1898.

R. W. IVY.

CANOPY FOR MOSQUITO NETS.

(Application filed Apr. 12, 1898.)

(No Model.)



Witnesses

John Maupin.
A. G. Keyman.

Inventor

Robert W. Ivy.
By Wm H. Bates.

Attorney

UNITED STATES PATENT OFFICE.

ROBERT W. IVY, OF NEW LONDON, NORTH CAROLINA.

CANOPY FOR MOSQUITO-NETS.

SPECIFICATION forming part of Letters Patent No. 614,473, dated November 22, 1898.

Application filed April 12, 1898. Serial No. 677,362. (No model.)

To all whom it may concern:

Be it known that I, ROBERT W. IVY, a citizen of the United States, residing at New London, in the county of Stanley and State of North Carolina, have invented certain new and useful Improvements in Canopy-Frames for Mosquito-Nets; and I do 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 make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention has relation to improvements in canopy-frames for mosquito-nets; and the object is to provide a canopy-frame of simple construction, easily manipulated, adjusted, and applied, and which may be turned up from the bed or couch and extended or shortened to suit any desired or required length.

The present invention is designed as an improvement on the constructions and appliances shown and described in my earlier Letters Patent, No. 598,098, dated February 1, 1898.

I have fully and clearly illustrated the invention in the accompanying drawings, wherein—

Figure 1 is a perspective view of my improved canopy-frame extended and connected at its base to the posts or headboard of a bed. Fig. 2 is a side view showing the frames similarly extended. Fig. 3 is a detail perspective of one of the fastening-brackets at the base of the main frame. Fig. 4 is a detail view of one of the brackets at the base of the sliding frame.

Referring to the drawings, A A' designate duplicate fastening-brackets composed of an angular piece adapted to lodge against the side of the bed-post or headboard and embrace the back and front faces thereof, as indicated in the drawings, and held in adjusted position by means of set-screws 1, let through one of the side extensions of the bracket, and from the front outer corner of each fastening-bracket projects a bearing-lug 2, directed vertically and forward to afford room or space, so that the frame when turned up will be inclined back from a vertical position.

B B' designate the base-brackets of the lower and main frame. These brackets are duplicates in construction, comprising a base-piece 3, formed with a bearing 4 at the inner end and forwardly-projecting socket-pieces 5 6 at each end, as shown, the former of which is intended to take and hold the end of the respective side rods 7 8 of the main frame, and the latter, 6, is provided with internal screw-threads, in which engage the threaded ends of the side brace-rods 9 10 of the main frame.

C C' designate duplicate brackets in which the outer ends of the side bars or rods and brace-rods are arranged, the latter having threaded engagement with the bracket and the former having a limited movement therein, so that when the bars are connected to the brackets the brace-rods, which are right and left threaded at their opposite ends, may be screwed up, and the frame thus made staunch and rigid in arrangement and assemblage. The brackets C C' are connected by an end cross-rod c, having right and left screws at its respective ends taking in the threaded socket in the brackets.

The main frame is pivotally supported by and connected to the brackets A A' by means of bolts, screws, or other suitable bearings, as at 11. The brackets 6 6' are formed with central apertures 12, extending through them lengthwise, in which are slidingly arranged the side bars 12' 12' of the extensible frame. On the inner end of each side bar of the extensible frame is secured a bracket 13, having the end of the bar socketed therein and formed with a sleeve 14, slidingly disposed on the side bar of the main frame, as shown in the drawings. The side bars 12' 12' at their outer portions are struck or bent at right angles to their stems, as at 15, the ends terminating at a suitable distance, substantially as indicated, and the space between the approaching ends is supplied by a bar or rod 16, held in position by means of sleeves 17 18, arranged on and adjustable on the alining bar and end pieces, and the whole constituting the end bar of the extensible frame. This construction of the extensible frame enables the frame to be packed in a small space when not in use or when shipped, as the end rods of both frames may be removed and the whole

then be packed in a small space. On the side bars of the extensible frame, on the portions extending beyond the end brackets of the main frame, are arranged a suitable number 5 of rings *d*, to which a canopy (not shown) may be connected, as usual, and the rear portion of the canopy may be suitably fastened to the brace-rods of the main frame.

To assemble the parts of the frame, the 10 brackets of the extensible frame are arranged on the main side bars. These bars are then socketed in the hinged or pivoted brackets. The side bars of the extensible frame are then passed through the end brackets of the main 15 frame and screwed into the sliding brackets, the brace-rods of the main frame are applied and screwed up, and the end bar screwed into place, and then the separable end piece of the extensible frame arranged and secured 20 in place, and then by connecting the post-brackets the frame is ready to be applied and secured to the bed. A canopy is then secured to the frame in the usual manner.

In use the frame lies in horizontal position, 25 being so held and maintained by the contact or lodgment of the rear faces of the end brackets of the main frame against the inner faces of the fastening and holding brackets. When it is not desired that the frame shall be ex- 30 tended over the bed, it is turned up on its hinges or pivotal supports, when the extensible frame will slide down on the main frame and rest with the canopy out of the way.

Having thus described my invention, what 35 I claim, and desire to secure by Letters Patent, is—

1. In a canopy-frame, a main frame comprising base-brackets pivotally supported to the bed, and formed with upper and lower 40 sockets, end brackets having upper and lower sockets therein, and central apertures there-

through, side rods disposed in the lower sockets of the respective brackets and connecting the same, and brace-rods having their ends threaded in the upper sockets of the respec- 45 tive brackets, and a rectangular extensible frame having sleeves secured upon the inner ends of said frame and sliding upon the side bars of the main frame its bars slidingly arranged in the apertures in the end brackets 50 of the main frame, and the inner ends of the side bars detachably connected to said sleeves.

2. In a canopy-frame, comprising fastening-brackets adapted to embrace the support to which the canopy is held and formed with 55 upward and forward extending bearing-lugs, brackets pivotally connected to the fastening-brackets, comprising a body adapted to contact with the face of the fastening-brackets and hold the frame in horizontal position and 60 formed with upper and lower sockets, end brackets for the main frame having upper and lower sockets and a central opening there-through, side bars having the ends in the 65 lower sockets of the respective brackets, brace-rods having the ends threaded in the upper sockets of the respective brackets of the main frame, and cross-bar connecting the end brackets of the main frame, an extensible frame having sleeves secured upon the inner ends of 70 said frame and sliding upon the side bars of the main frame its side bars projected slidingly in the apertures in the brackets of the main frame and detachably secured to the sleeves, and a separable end bar for the ex- 75 tensible frame.

In testimony whereof I affix my signature in presence of two witnesses.

ROBERT W. IVY.

Witnesses:

HENRY T. SAWYER,
H. C. CROWELL.