

No. 884,060.

PATENTED APR. 7, 1908.

J. ANDERSON & H. TORJESEN.
CONVERTIBLE CHAIR.

APPLICATION FILED JULY 5, 1906.

5 SHEETS—SHEET 1.

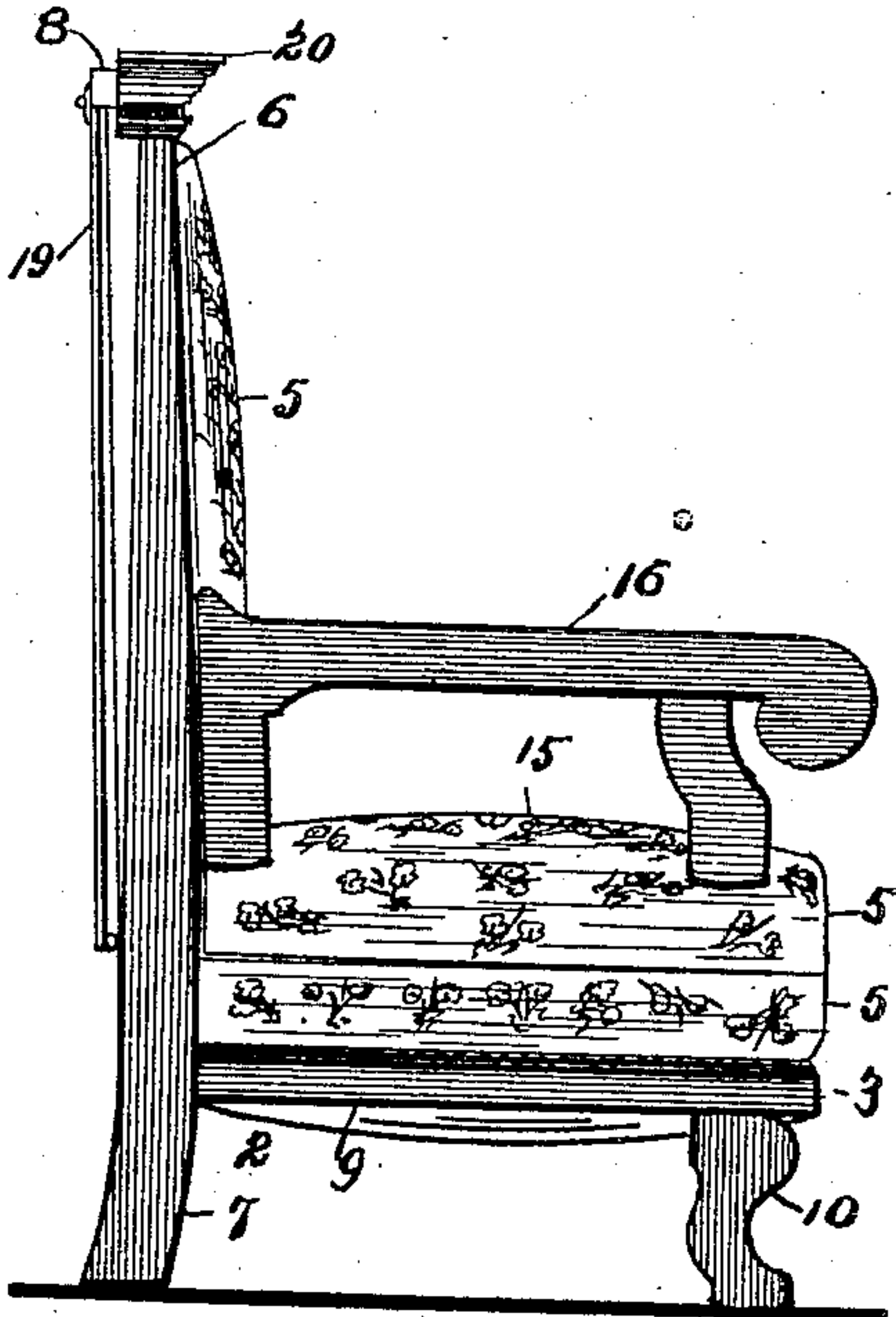


FIG. 2.

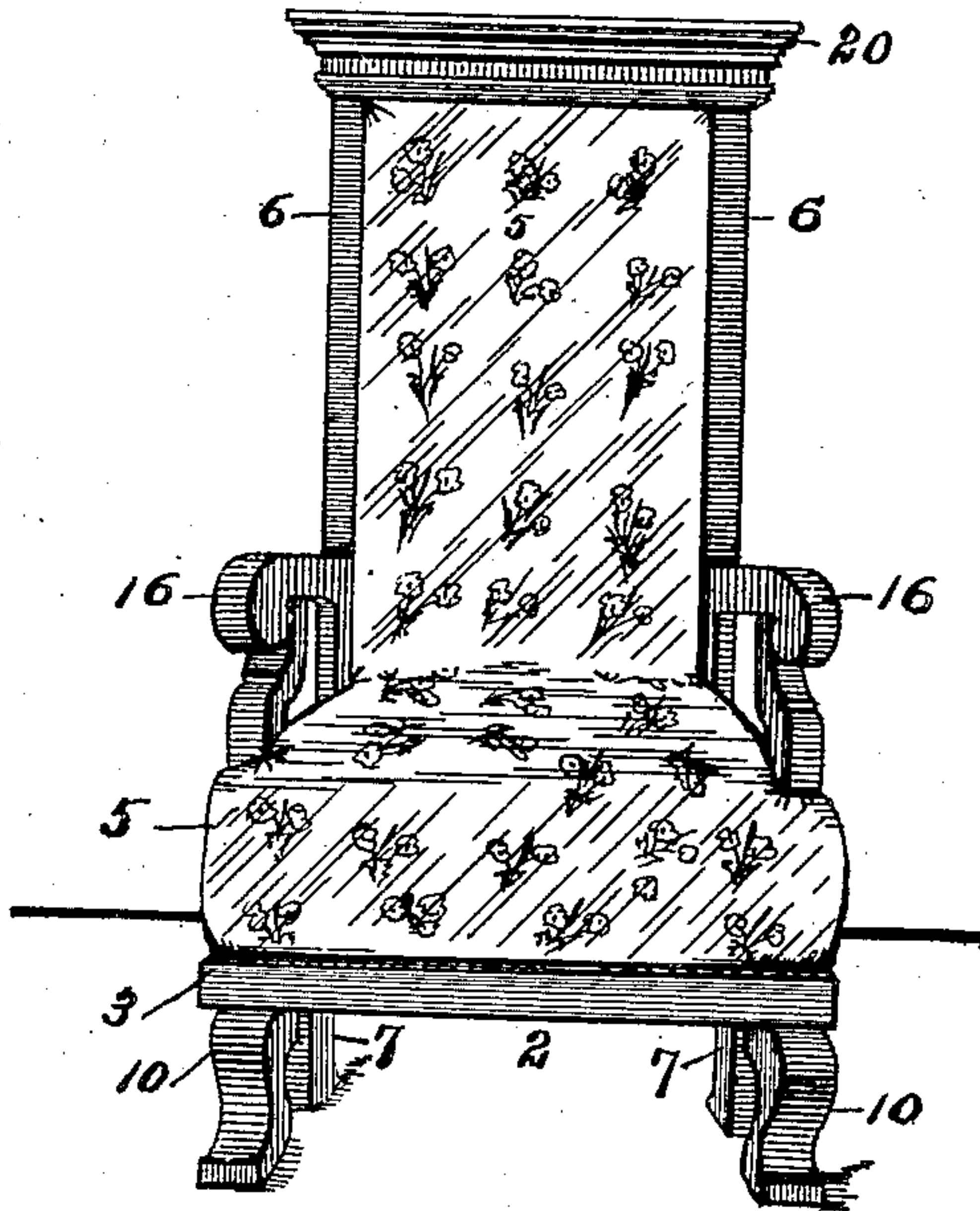


FIG. 1.

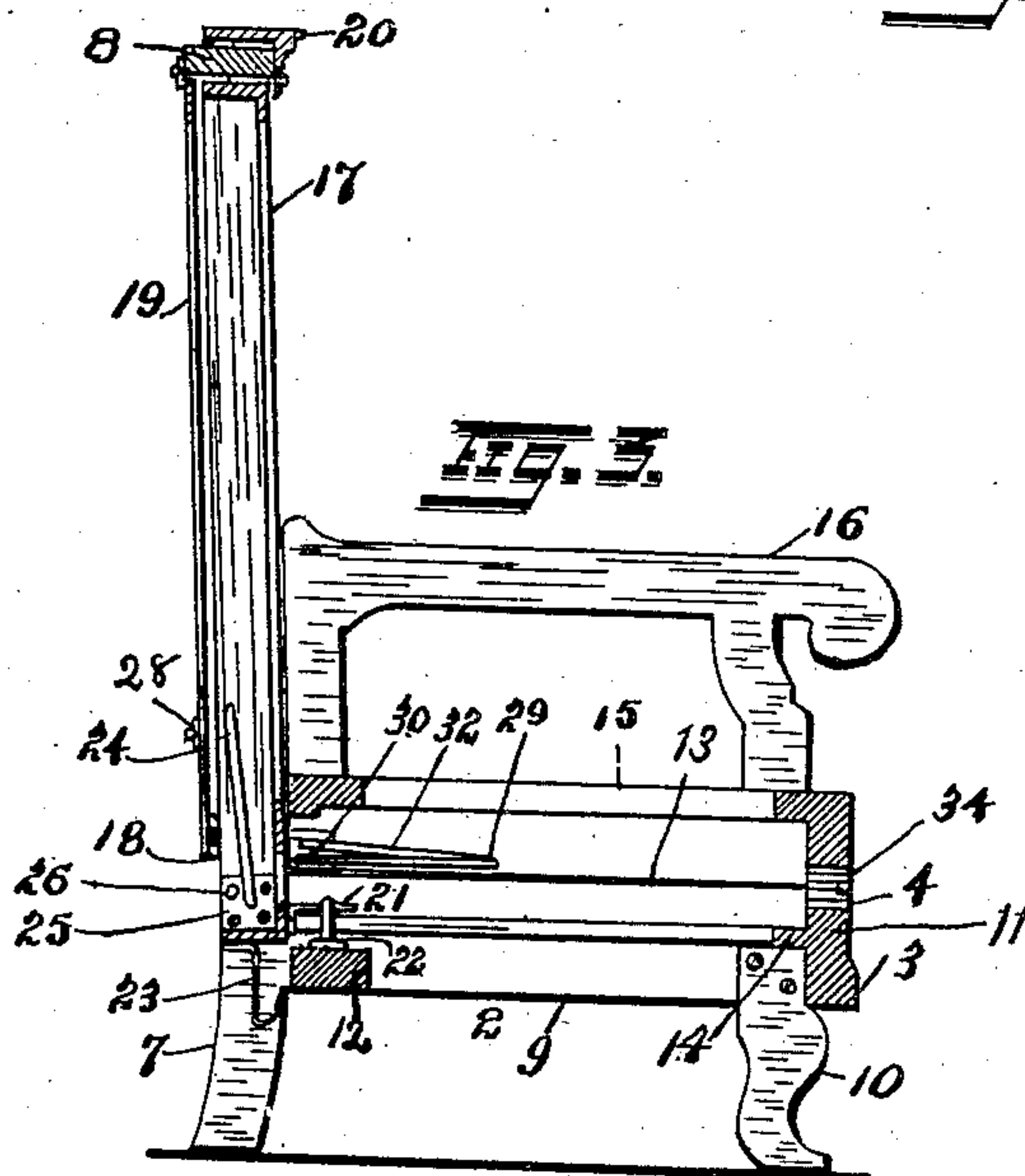


FIG. 3.

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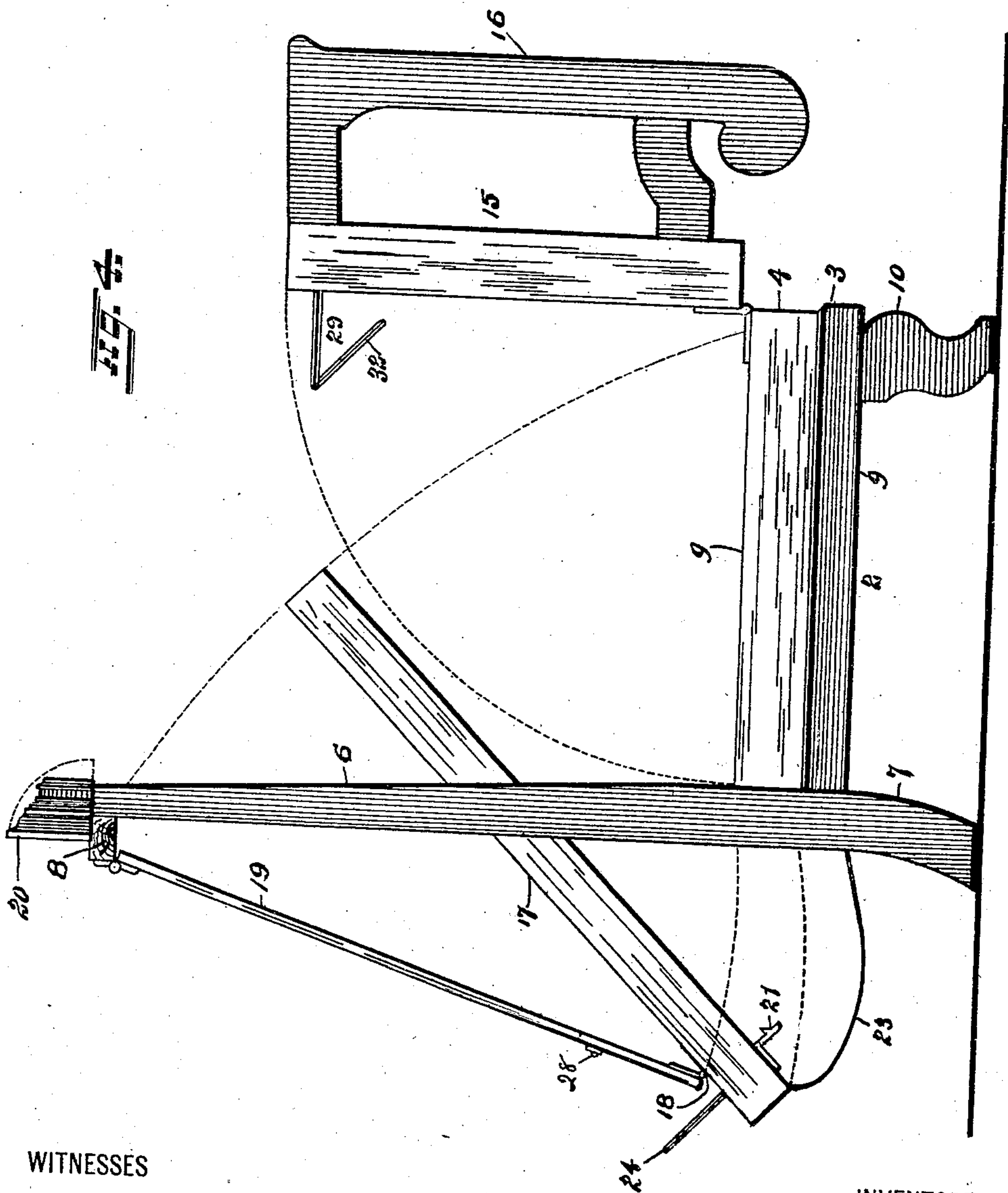
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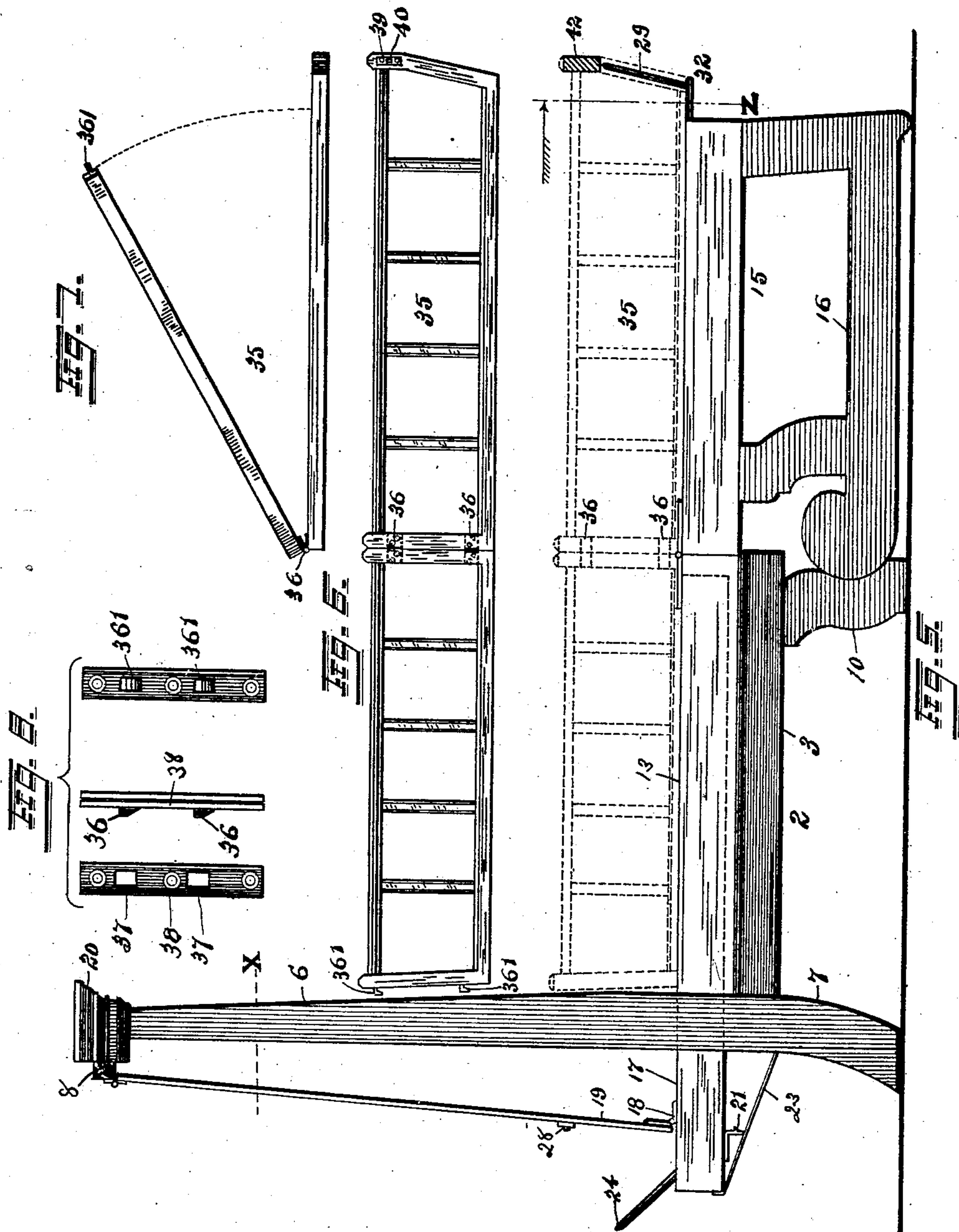
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5 SHEETS—SHEET 3.



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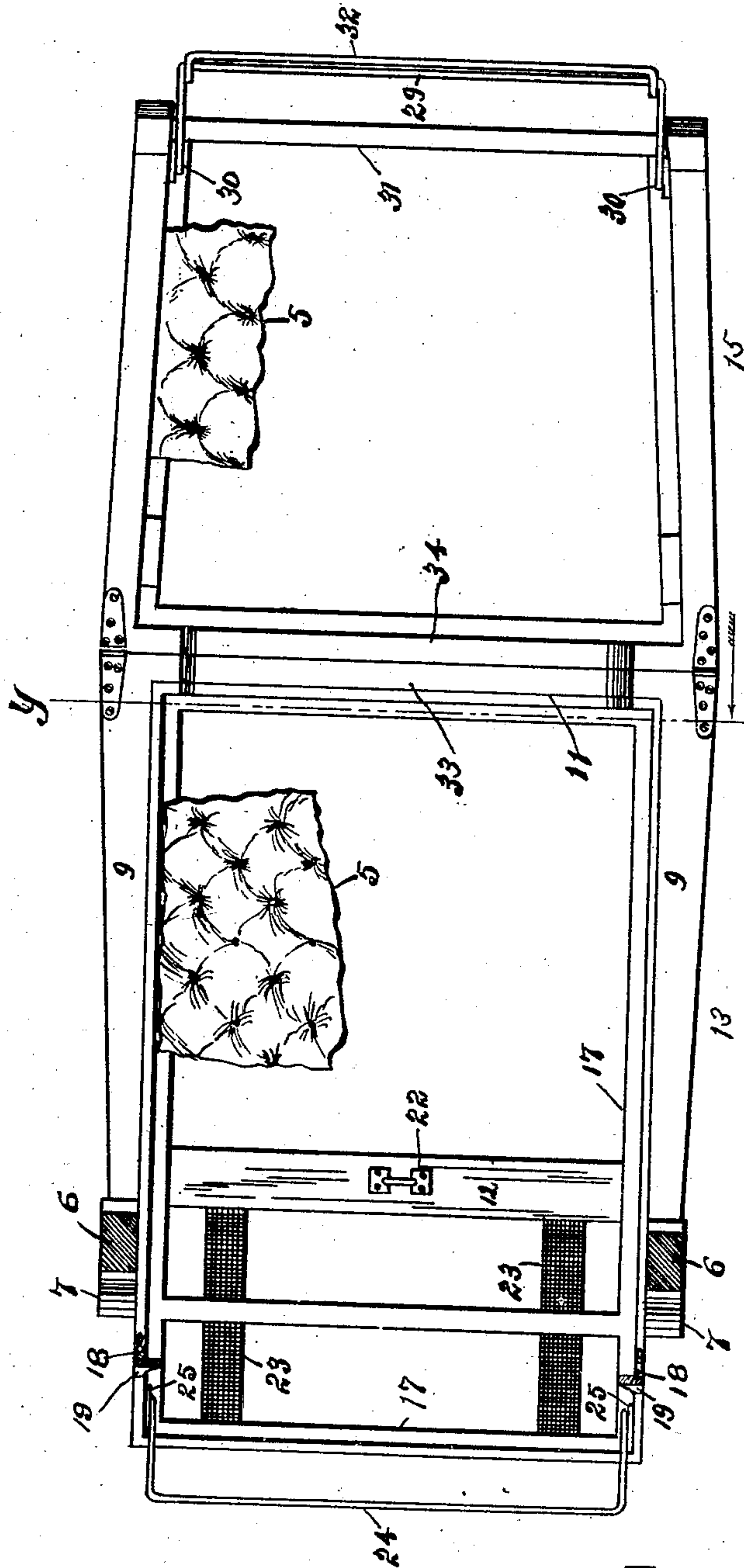
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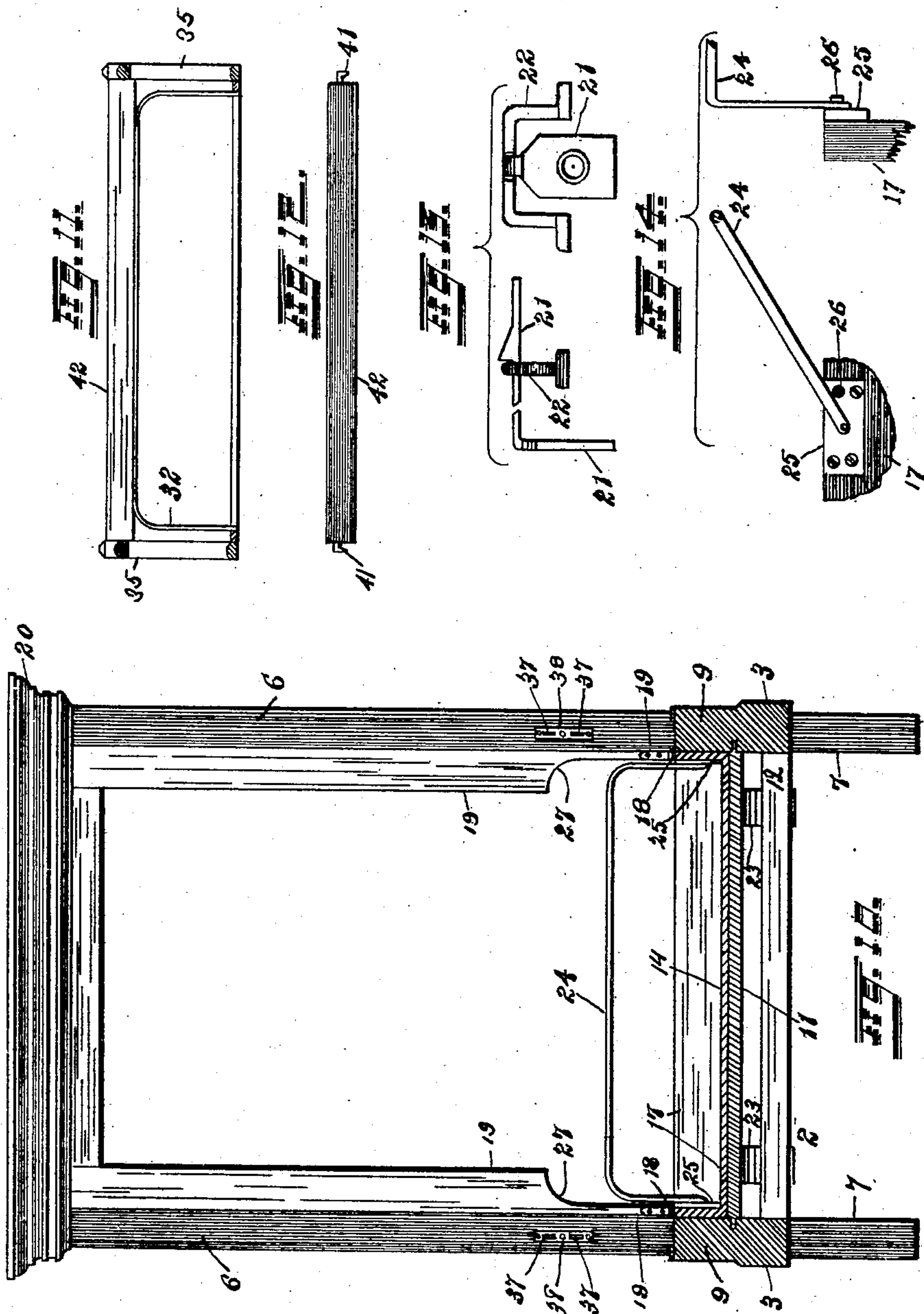
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UNITED STATES PATENT OFFICE.

JACK ANDERSON, OF WESTFIELD, AND HERMAN TORJESSEN, OF GARWOOD, NEW JERSEY.

CONVERTIBLE CHAIR.

No. 884,060.

Specification of Letters Patent.

Patented April 7, 1908.

Application filed July 5, 1906. Serial No. 324,833.

To all whom it may concern:

Be it known that we, JACK ANDERSON, residing in Westfield, and HERMAN TORJESSEN, residing in Garwood, both in the county of Union and State of New Jersey, and both of us being subjects of the King of Norway, have invented certain new and useful Improvements in Convertible Chairs, of which the following is a specification.

Our invention relates to an armchair which is constructed of relatively adjustable parts which may be opened out when desired to form a bed for sleeping purposes, the objects of the invention being to economize space by combining a chair and bed in one article of furniture, to secure an improved construction of frame for such chair with strong automatically operating supporting means for the hinged adjustable parts; to enable the frame sections to be of the same height when open, so as to form an even and comfortable bed-surface, to enable the device to be used as a safety crib; to provide storage space for accommodating the bedding; to secure an ornamental as well as useful piece of furniture, and to obtain other advantages and results as may be brought out in the following description.

Referring to the accompanying drawings, in which like numerals of reference indicate corresponding parts in each of the several figures, Figure 1 is a front view of our improved convertible chair showing the same closed, and Fig. 2 is a side elevation of the same; Fig. 3 is a central vertical section of the frame of the chair taken from front to rear, the upholstering being all removed for the sake of greater clearness; Fig. 4 is a side view showing the relative positions of the parts as they appear when the chair is being opened to form a bed; Fig. 5 is a side view of our improved device completely opened and extended to form a bed, the upholstering in both this figure and the preceding one being also removed for greater clearness; Fig. 6 shows a certain side-rail which can be used in connection with the bed as shown in outline in Fig. 5 to form a crib, and Fig. 7 is an edge-view of said rail partly closed or folded up; Fig. 8 shows a face view of a certain locking or securing plate for the side rail and also the same in edge and rear view as it is engaged by the male locking plate; Fig. 9 is the plan of the frame of our improved device in open position to serve as a bed, partly in section as on line x Fig. 5; Fig. 10 is a vertical sectional view

taken on line y Fig. 9 and looking in the direction indicated by the arrow; Fig. 11 is a detail section on line z , Fig. 5, looking toward the foot of the crib; Fig. 12 is a detached view of a certain cross bar used at the foot of the crib; Fig. 13 is a side elevation and front view of a certain catch for fastening the adjustable parts of the chair against movement, and Fig. 14 shows in side elevation, looking outward from the chair body, and in similar end view, a portion of an adjustable pillow guard used at the head of the bed.

In said drawings, 2 indicates the frame of the chair which at its exposed parts 3 is preferably made of hard wood varnished and polished in any manner common to the art, while the unexposed parts 4 are of cheaper wood and covered or upholstered as at 5 in any suitable way to suit the taste of the purchaser. The stationary part of said frame 2 comprises upright portions 6, 6, which form at their lower ends 7, the rear legs of the chair. These uprights are secured to each other at their tops by means of a cross-piece 8, and adjacent to their lower leg portions 7 receive the side rails 9, 9, of the base portion of the chair, the front legs 10, 10, being at the opposite ends of said side rails, and said side rails connected at their front and rear ends respectively by means of cross-pieces 11 and 12. A rectangular base portion is thus provided which at the inner side of its front edge has a ledge or rest 14.

To the front edge of said base portion 13 is hinged a similarly shaped seat portion 15, which normally lies superposed upon the base portion and is provided with side arms 16, 16. When the said seat portion 15, is folded forwardly from its said normal position, the arms 16, 16, engage the floor to serve as supports, as shown in Fig. 5 more particularly, and the said seat portion lies in substantially the same plane with the base portion of the chair. Between the said uprights 6, 6, and in substantially the plane of the chair back, normally lies a frame 17, which is upholstered to form the main portion of the back of the chair. This frame is considerably longer from top to bottom than the length of the base portion 13 of the chair from front to rear, and it is a feature of our invention to so pivotally support this frame that it may be folded forwardly downward to lie at its upper or front edge in the ledge 14 of the base portion, the lower or rear end of said frame being thrust rearwardly outward so as to

lengthen the bed, as clearly shown in Figs. 4, 5, and 9. To this end the said frame is hinged at points near its normally lower end as at 18, to the lower ends of links or straps 19 which are in turn pivotally connected at their upper ends to the cross-piece 8 connecting the tops of the uprights 6, 6. Thus when the frame 17 is in normal upright position its lower end projects below the plane of the base portion of the chair, and more or less increase of length of the bed may be secured by taking advantage of this construction. Preferably the said frame 17 is held in its normal upright position by means of a hinged cap 20 at the top of the back portion of the chair and which is made ornamental to give a finish to the chair back. The bottom end of the frame is also secured by suitable catch means, preferably a leaf spring 21, adapted to hook over a stop 22 on the base portion of the chair, as shown in Figs. 3 and 13 more especially. This bottom catch holds the frame 17 in plane with the uprights 6, 6, to form the back of the complete chair. Obviously said spring will lock automatically when the frame is swung into place, and may be released by a touch of the foot or finger. Strips of webbing 23 are also provided, fastened at one end to the swinging frame 17 and at the other end to the base portion of the chair to limit movement of said frame.

It will be understood that the seat portion 15 of the chair presents at both sides of itself upholstered surfaces, as does also the said frame 17 of the back portion, and thus whether the chair is closed as in Figs. 1 and 2, or as opened as in Fig. 5, the said parts 15, and 17, present soft upholstered surfaces to receive the occupant,—the first in sitting position and the second in reclining position.

Preferably the lower, or rear end of the frame 17 is provided with a pillow guard comprising an inverted U-shaped member 24 pivoted at the extremities of its arms on plates 25 fastened to the inner side walls of the frame 17, stops 26 being arranged on said plates adjacent to the said points of pivoting to limit movement of the arms. This pillow guard, in closing the chair, is folded within the frame 17 as shown in Fig. 3, and when the chair is opened to form a bed, said guard swings outward between the links 19 to the limit fixed by the stops 26. Furthermore it will be noted that the head and shoulders of the occupant of the bed have plenty of room between said links 19, 19, and uprights 6, 6, respectively. The inner edges of the links 19 may be shaped as at 27 (Fig. 10) to conform to the ends of the pillow guard, and buttons or catches 28 provided thereon to hold said guard from opening inadvertently.

At that edge of the seat portion 15, which is opposite its hinged edge, and which becomes the foot of the bed when extended, is also arranged an inverted U-shaped exten-

sion 29 pivoted as at 30, 30, to the inner faces of the side rails of said seat portion and being limited in its opening by the adjacent cross piece 31. To the outer end of this extension is similarly pivoted an auxiliary U-shaped guard 32, which stands nearly upright at the foot of the bed, while the said extension is nearly horizontal. Obviously said guard folds within the extension and both of them within the seat portion 15, in closing the bed into its chair form. Both said guard 32, and the pillow guard 24, may if desired be upholstered in any suitable manner common and well known in the art, and preferably the said pillow guard 24, is so upholstered to form a raised head rest as is common in couches. Furthermore, the front cross pieces of both the base portion 13, and the seat portion 15, are recessed as at 33, 34, see Fig. 9 more particularly, so as to be depressed below the level of the occupant reclining thereon when the chair is open to serve as a bed.

In order that our invention may be utilized for little children and used as a crib when desired, without danger of the children falling out or escaping, we have provided detachable side rails 35, each of which is hinged at its middle, as 36, to double or fold, one end one section upon the other, as clearly shown in Fig. 7. Preferably the said side rails are arranged with the hinges outward so as to resist pressure more effectually when in place on the crib. The ends of the side rails 35, are provided with hooks or hasps 361, 361, adapted to enter the apertures 37, of keeper-plates 38, mounted in the forward sides of the uprights 6, 6 of the chair frame. The side rails can thus be applied or detached similar to the ordinary assembling of a bedstead.

At the foot of the crib formed by the extended chair, as shown in Fig. 5, the said side rails 35 terminate flush with the auxiliary guard 32, and at the upper part of their inner faces are provided with keeper-plates 39, apertured as at 40, to receive hooks or hasps 41, on the opposite ends of a foot rail 42, which lies just above the said guard 32, and secures rigidity of all said parts at the foot of the bed.

When the bed is closed up into chair form, the said side rails 35, and foot rail 42, can be placed in the base portion 13 of the chair after the frame 17, has been raised, and the bedding also put in the same space for storage, so that as the seat portion 15, is tipped into place, everything is hidden.

A construction is thus afforded which provides a comfortable chair of pleasing and ornamental appearance, and which at the same time can be converted into, and utilized as, a bed when desired, said bed being of full length and adapted to conserve the comfort of the occupant in every possible

way. Furthermore the bed so provided is strong and secure, and its fastenings are such as will not get out of order or either operate or refuse to work inadvertently.

5 Obviously various detail modifications could be made from the exact construction shown, in the commercial manufacture of my invention by one skilled in the art, without departing from the spirit and scope of the
10 invention, and I do not wish to be understood as limiting myself by the positive descriptive terms herein employed, except as the state of the art may require.

15 Having thus described my invention, what I claim is;

A convertible chair comprising a base

portion, a back portion extending upward, a seat portion hinged to said base portion to fold forward into substantially the same plane therewith, a hinged foot guard at the
20 end of said seat portion opposite its hinge, detachable side rails adapted to be connected to said back portion and stand at the opposite sides of the extended base portion and seat portion, and a foot rail detach-
25 ably connecting said side rails and standing across the top of the foot guard.

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