

No. 788,075.

PATENTED APR. 25, 1905.

D. C. STORR & J. LUPPINO.
ADJUSTABLE SUPPORT FOR SOFA BEDSTEADS OR THE LIKE.
APPLICATION FILED MAY 22, 1903.

FIG. 1.

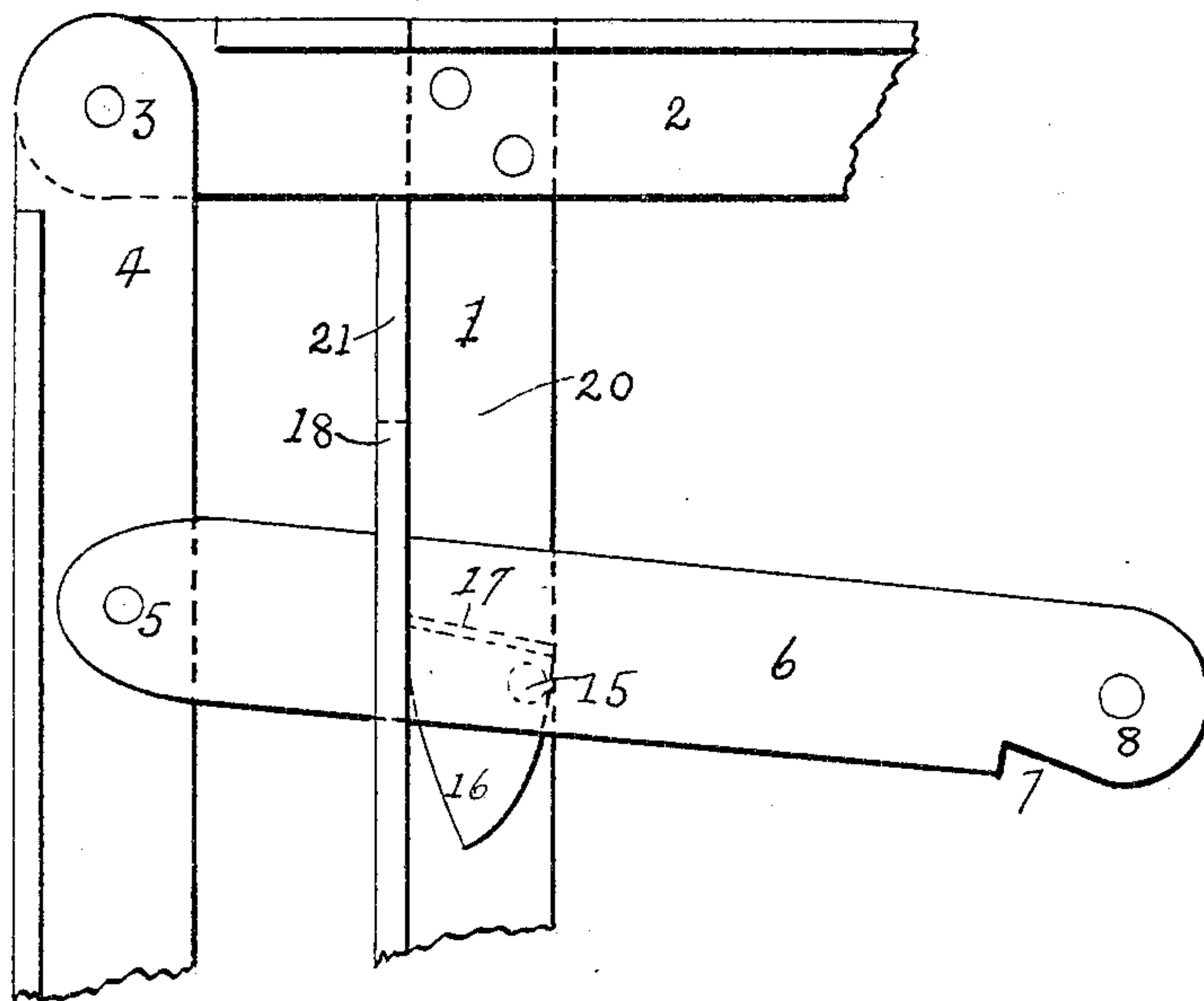


FIG. 2.

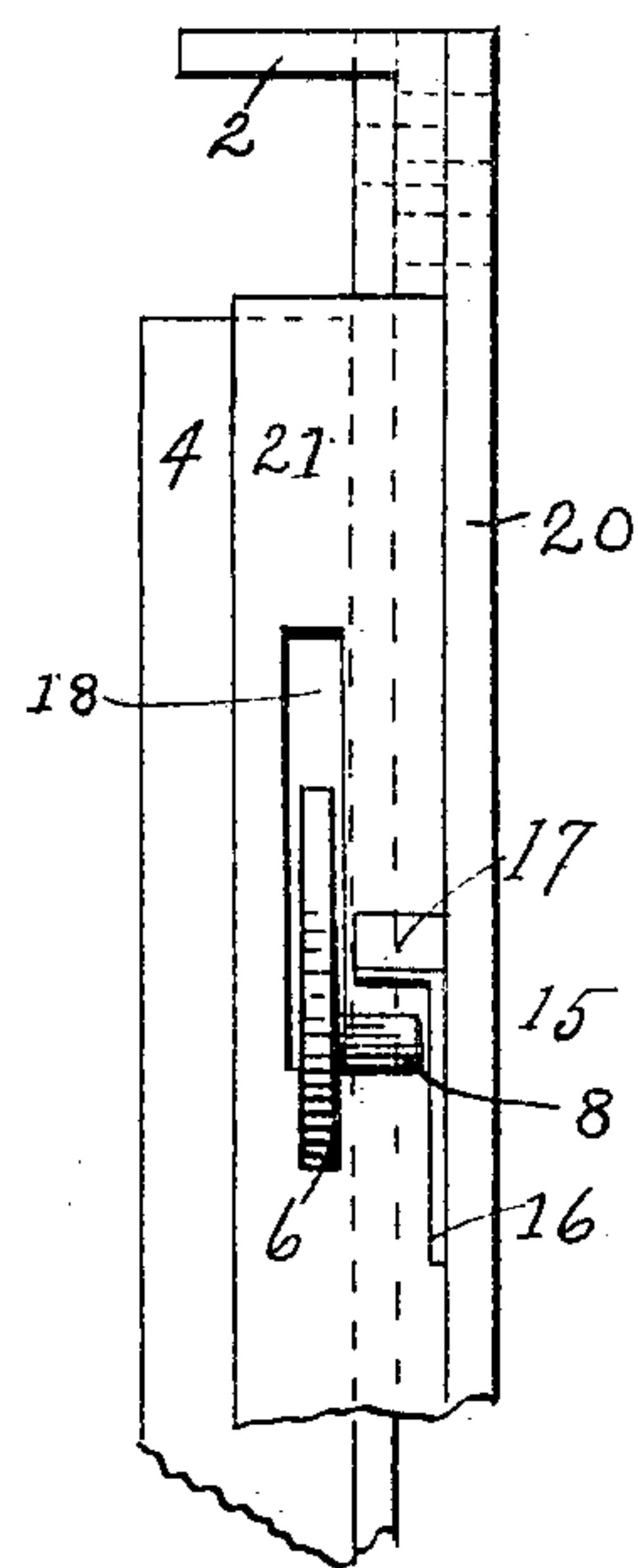


FIG. 3.

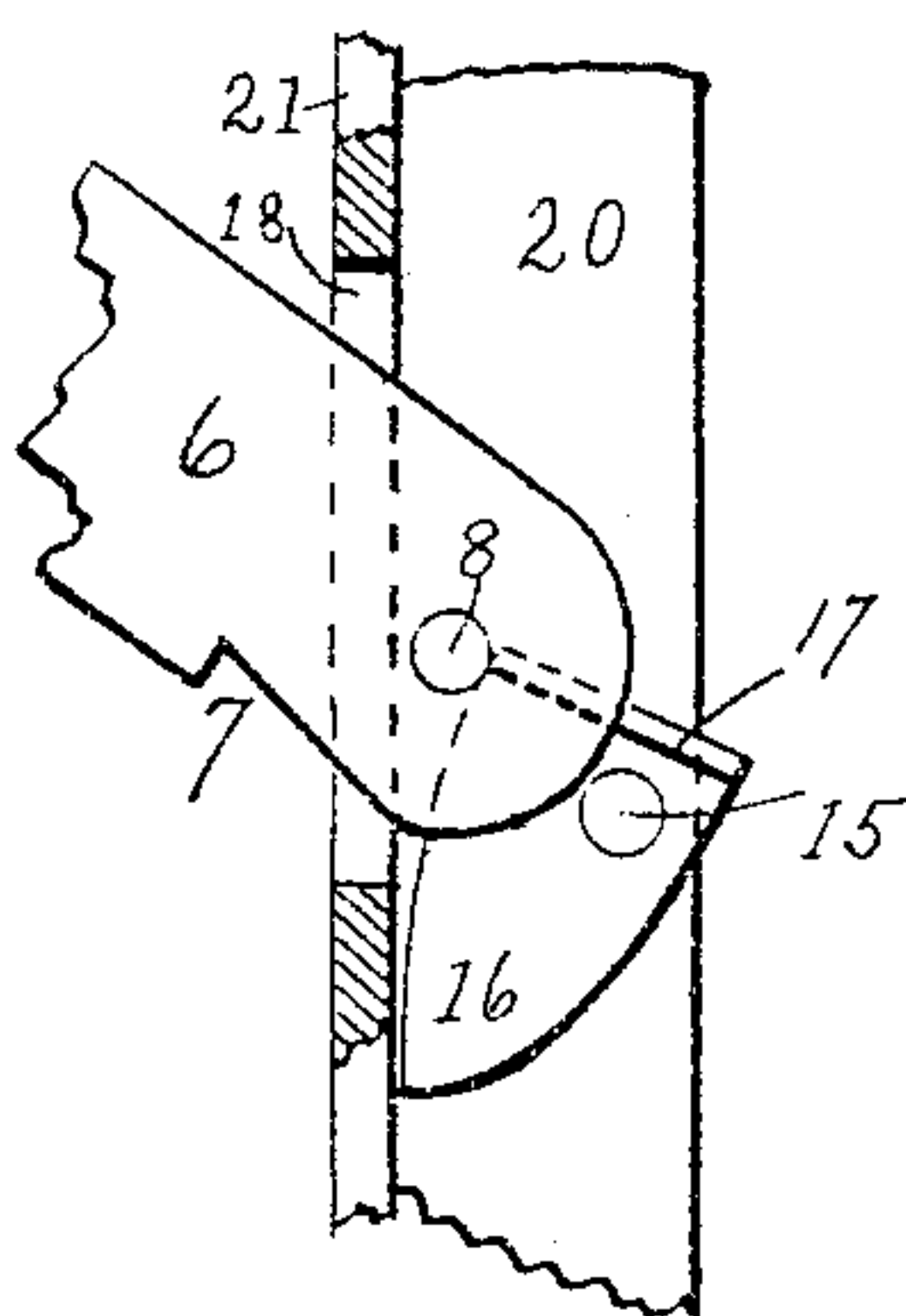
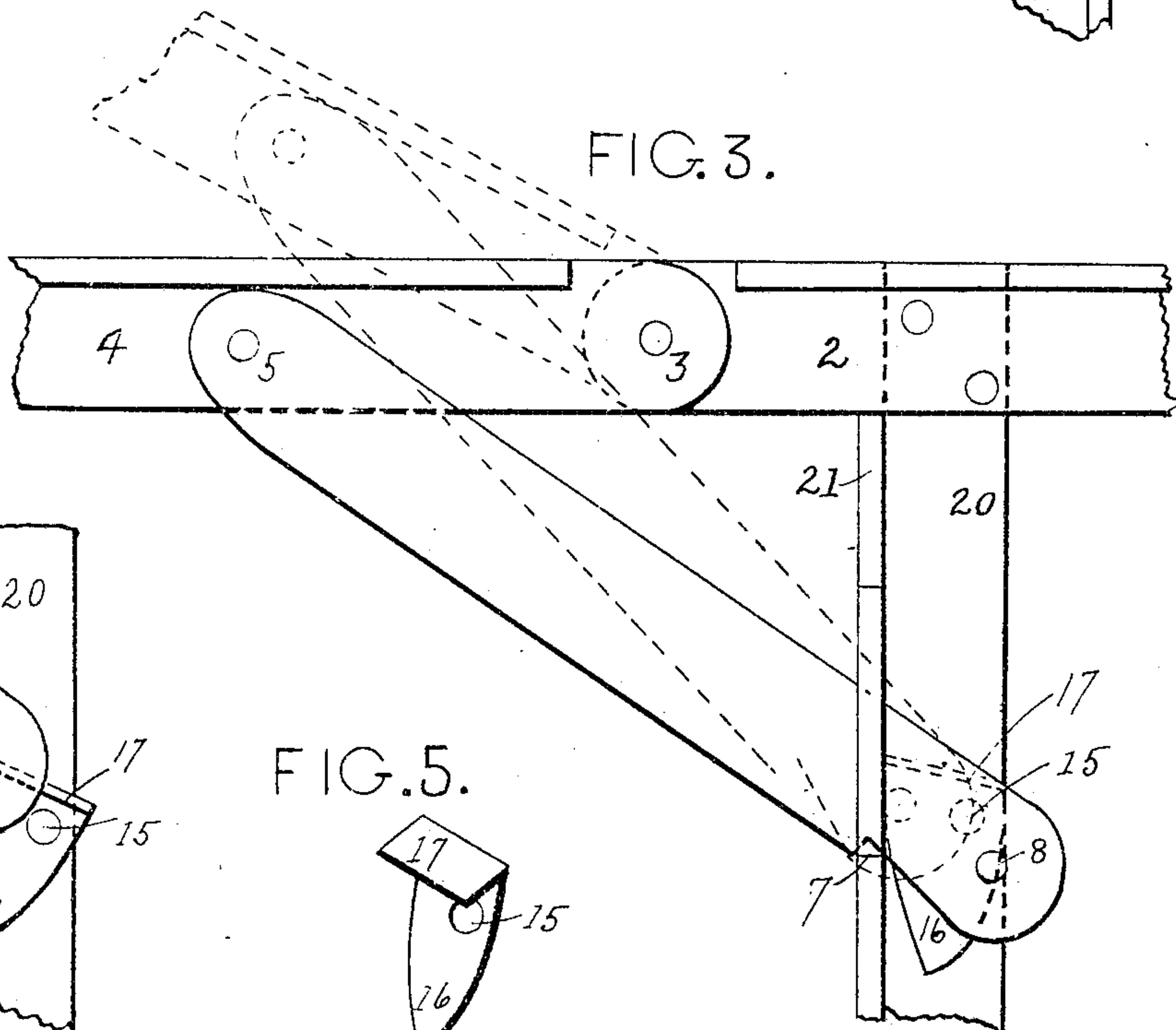


FIG. 5.

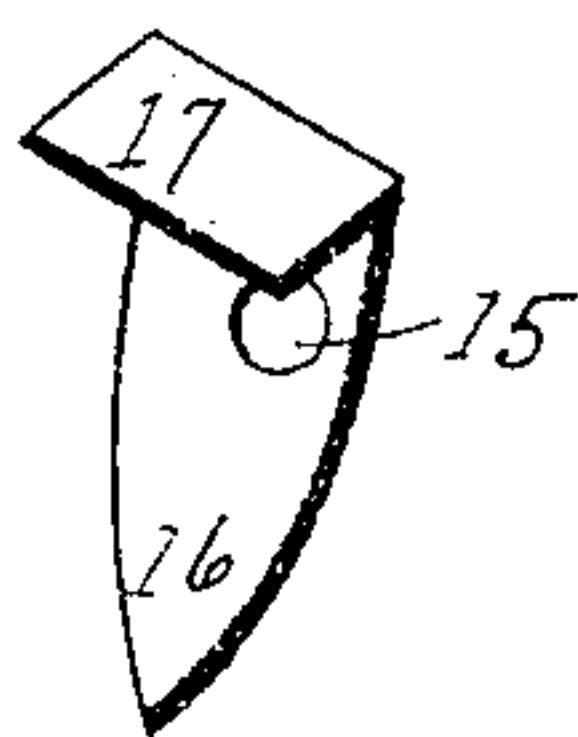


FIG. 4.

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UNITED STATES PATENT OFFICE.

DAVID C. STORR, OF NEW YORK, N. Y., AND JOSEPH LUPPINO, OF NEW HAVEN, CONNECTICUT.

ADJUSTABLE SUPPORT FOR SOFA-BEDSTEADS OR THE LIKE.

SPECIFICATION forming part of Letters Patent No. 788,075, dated April 25, 1905.

Application filed May 22, 1903. Serial No. 158,263.

To all whom it may concern:

Be it known that we, DAVID C. STORR, a citizen of the United States, and a resident of the city, county, and State of New York, and JOSEPH LUPPINO, a subject of the King of Italy, residing in the city and county of New Haven and State of Connecticut, have jointly invented certain new and useful Improvements in Adjustable Supports for Sofa-Bedsteads or the Like; and we do hereby declare the following specification, when taken in connection with the accompanying drawings, to be a full, clear, and exact description of the same, and which drawings represent, in—

Figure 1, a side view with the adjustable or movable member down; Fig. 2, an end view of Fig. 1; Fig. 3, a side view of the device when the movable member is raised, the dotted lines indicating the position of the parts when the support has passed over the switch member; Fig. 4, a side view of the support in the act of passing the switch. Fig. 5 is a view of the gravity-actuated switch member.

This invention relates to an improvement in the adjusting device of the patent to Luppino, No. 724,901, whereby the necessity of employing the upwardly-inclined recess into which the stud passes when clearing the switch is obviated and the switch mechanism is rendered more certain, simple, and effective in its action. It has been found in practice that the recess of the Luppino patent was troublesome and costly to manufacture and that skilled hand-labor was required to assemble and adjust the parts so that the switch member would aline with the upwardly-inclined recess and enable the stud to pass freely over it. It was also found that the switch was liable to stick, especially if it had been painted or varnished. It is the purpose of our present invention to obviate these difficulties and simplify the structure, so that it can be cheaply and economically manufactured and assembled by workmen of ordinary skill.

In the drawings the device is shown as applied to a metal bedstead of the type known as the "drop-side couch," which has a main frame and extension sides pivoted thereto. It is obvious that the structure can be applied

to "Morris" chairs, to the heads of invalid-beds, to the side leaves of tables, and for like purposes. The frame of these couch-beds is usually made of L or angle iron, and it is so illustrated in the drawings. 1 is the upright leg, having the front face 21 and the back face 20. 2 is the horizontal end piece, the parts 2 and 3 forming the fixed member of the support. To the horizontal part 2 the swinging or movable member 4 is secured at the point 3. Pivoted to the swinging member 4 the supporting bar or brace 6 is secured at the point 5. This brace 6 passes through a guide 8 in the front face 21 of the upright 1. At or near its free end a notch 7 is cut to engage the lower face of the guide and hold the movable member 4 in a horizontal position when it is raised. At a short distance in the rear of the notch 7 a stud 8 is secured to the brace 6, which projects toward the rear face 20 of the upright 1. Secured to the inside of the back face 20 is the switch shown in Fig. 5. This switch, as shown in Fig. 5, consists of a horizontal upper face 17 and a vertically-depending lower part 16. It is pivoted to the rear face of the upright at 15, so that the preponderance of weight is in front of and below the pivot 15, whereby the upper face 17 is normally held against the front face 21 of the upright 1, as shown in Fig. 1, but which is capable of yielding to the upward movement of the stud 8, as shown in Fig. 4, so that the latter can pass and ride over it. The front edge of the switch is so curved that the ends limit the motion about the pivot 15.

The operation of the device is as follows: The outward end of the movable part 4 is lifted to a horizontal position, as shown in Fig. 3, carrying the support 6 through the guide 8 until the notch 7 falls into the bottom of the guide 8. The movable part 4 is thereby firmly secured in a horizontal position. To automatically release the notch 7 from its engagement with the bottom of the guide 8, so the movable part 4 may be lowered, the movable part is still further lifted, as shown in the dotted lines in Fig. 3, when the projecting stud 8 strikes the front face 21 and

travels upward along it, throwing the switch to one side until it has passed the top face 17. Fig. 4 shows the stud in the act of passing the switch and clearly explains the operation.

5 When the stud 8 has cleared the upper face 17 on its upward movement, the switch falls forward, closing the path of the stud, so that the latter slides down over the face 17, while the notch 7 is carried past the guide 8 without
10 engaging therewith, and the movable part 4 is thereby permitted to fall into a vertical position.

Having thus fully described our invention, what we claim as new, and desire to secure by
15 Letters Patent, is—

1. An adjustable support comprising a relatively stationary upright having a guide in it, a movable part pivotally secured to the upright and a notched part pivotally secured to
20 the movable part with its free end extending through the guide, said notch engaging the bottom of the guide on the upward movement of the movable part, a switch having a yielding horizontal face carried by one of said
25 parts, and a stud on the other part; the stud and switch cooperating on the continued upward movement of the movable part to lift the horizontal face of the switch and permit the stud to pass along it thereby carrying the
30 notch out of engagement with the bottom of the guide.

2. An adjustable support comprising a fixed part having a guide in it, a switch carried by said fixed part and having a yielding horizon-

tal face in juxtaposition to the guide, a mov- 35
able part pivotally secured to the fixed part, a notched brace pivotally secured to the movable part and passing through the guide and having at or near its notched end a stud adapted to engage the switch and pass over the hori- 40
zontal face on a continued upward movement of the movable part thereby carrying the notch out of engagement with the bottom of the guide.

3. An adjustable support comprising a fixed 45
part of L-shaped cross-section having a slot in its front face and an upwardly-movable switch secured to the back face, a movable part pivotally secured to the fixed part and a brace pivotally secured to the movable part 50
and passing through the slot in the fixed part, a notch near the end of the brace adapted to engage the bottom of the slot when the movable part is raised, a stud near the notched end of the brace adapted to ride up the front 55
face of the fixed part on the further upward movement of the movable part and pass the switch whereby the notch will be carried past the bottom of the slot without engaging it.

In testimony whereof we have signed our 60
names in the presence of two subscribing witnesses.

DAVID C. STORR.
JOSEPH LUPPINO.

Witnesses:

HANNAH GRAFF,
WALTER C. GOODALE.