

No. 773,720.

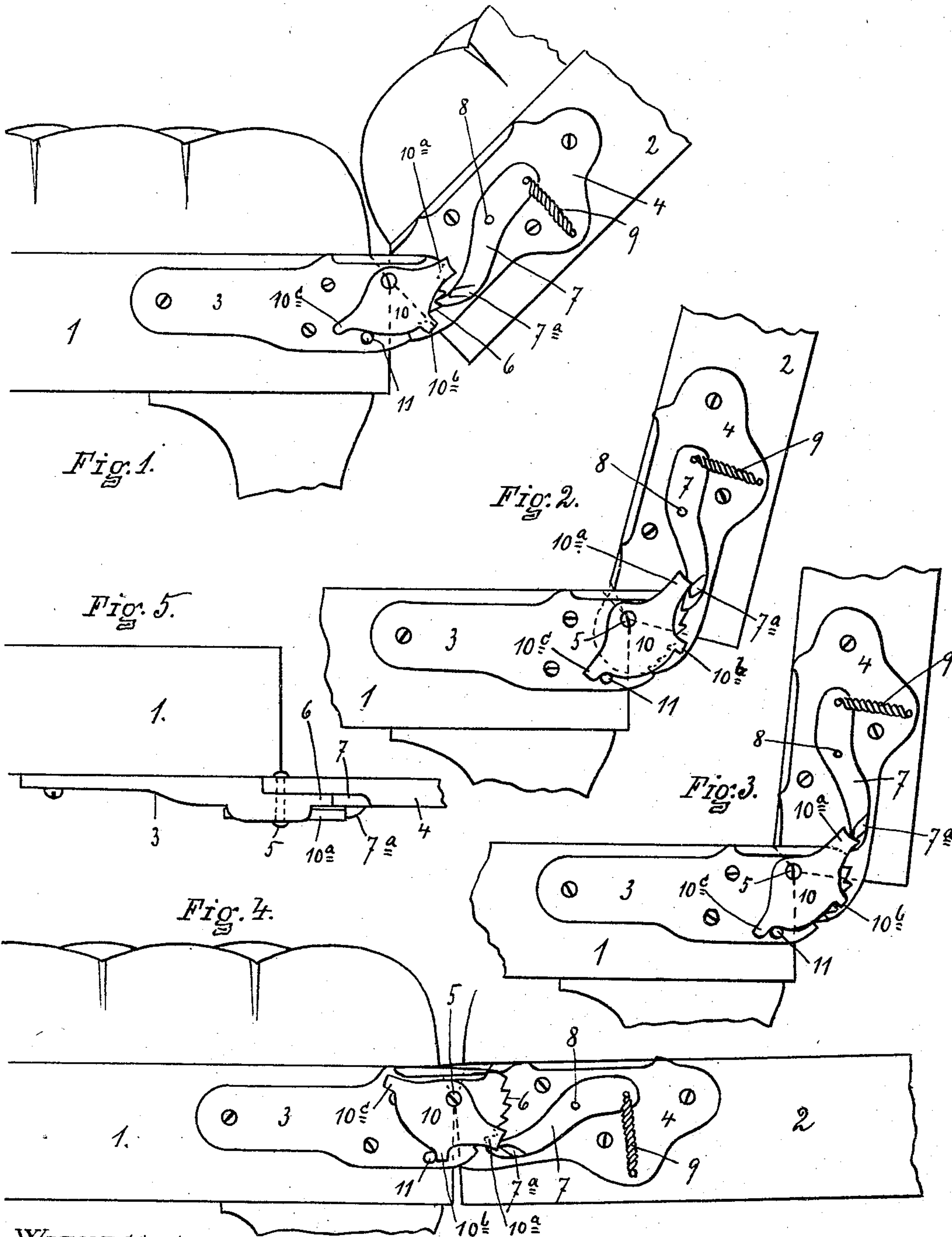
PATENTED NOV. 1, 1904.

G. W. DRURY.

ADJUSTING MECHANISM FOR COUCH HEAD RESTS, &c.

APPLICATION FILED MAR. 6, 1903.

NO MODEL.



WITNESSES  
Rich. A. George  
S. A. Brown.

INVENTOR  
GEORGE W. DRURY.  
By Milton E. Robinson  
ATTORNEY.



# UNITED STATES PATENT OFFICE.

GEORGE W. DRURY, OF CANASTOTA, NEW YORK, ASSIGNOR OF ONE-HALF  
TO CHARLES A. LEE, OF ONEIDA, NEW YORK.

## ADJUSTING MECHANISM FOR COUCH HEAD-RESTS, &c.

SPECIFICATION forming part of Letters Patent No. 773,720, dated November 1, 1904.

Application filed March 6, 1903. Serial No. 146,481. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE W. DRURY, of Canastota, in the county of Madison and State of New York, have invented certain new and  
5 useful Improvements in Adjusting Mechanisms for Couch Head-RESTS, &c.; and I do hereby declare that the following is a full, clear, and exact description of the invention, which  
10 it appertains to make and use the same, reference being had to the accompanying drawings, and to the numerals of reference marked thereon, which form part of this specification.

The object of my invention is to provide an  
15 improved supporting means for the adjustable head-rest of a couch, with means for automatically throwing out the securing mechanism in lowering the head of the couch.

The construction of this device herein illustrated is also applicable to other uses than the  
20 one in which it is shown.

In the drawings, Figure 1 shows a side elevation of a portion of a couch-frame, together with a portion of a head-rest frame and my  
25 adjusting mechanism mounted thereon. Fig. 2 shows substantially the same with the head-rest portion supported at its nearly vertical position. Fig. 3 shows the same with the catch thrown out preparatory to lowering the  
30 head-rest to a horizontal position. Fig. 4 shows the parts almost at the completion of the lower operation. Fig. 5 is a plan view of a portion of the construction.

Referring to the reference-numerals in a  
35 more particular description, 1 indicates a couch-frame, and 2 the head-rest frame. On the couch-frame is secured what may be termed the "base" or stationary portion 3 of my mechanism, and to the head-rest portion is secured the movable part 4 thereof.  
40 These two parts are hinged together on a pivot at 5. The part 3 is provided substantially concentric with the pivot with the segment of ratchet-teeth 6. The movable part 4 is provided with a dog or pawl 7, pivoted to the  
45 part 4 at 8 and held in engagement with the ratchet-teeth 6 by a spring 9. Mounted on the pivot 5 is also the throw-out device, consisting of a swinging plate 10, having an arm

10<sup>a</sup>, adapted to engage with a projection or  
lug 7<sup>a</sup> on the pawl and also provided with stop projections 10<sup>b</sup> and 10<sup>c</sup>, adapted to engage with a pin or fixed stop 11, secured in the stationary part 3.

It will be observed that the swinging part  
55 4 can be moved, with the head-rest portion, from a horizontal position to nearly a vertical position, in which movement the pawl 7 is moved around over the segment of teeth 6, and the pawl will engage at any point in the  
60 segment and support the head-rest at its desired angle. In order to lower the head-rest, it will be moved nearly or quite to a vertical position, in which case the lug 7<sup>a</sup> on the pawl is thrown onto the end of the arm 10<sup>a</sup> of the  
65 throw-out device, which throws the pawl out from engagement with the ratchet-teeth, as shown in Fig. 3. When the pawl is thrown out, the head-rest can then be lowered, the throw-out device turning around on the pivot 5 until  
70 the stop-arm 10<sup>b</sup> comes in contact with the stop 11, which limits this movement of the throw-out device to an arc of movement of less extent than the arc of movement of the movable part 4 and its pawl 7, and as the pawl is capable of a  
75 greater movement in this direction it is forced off from the end of the arm 10<sup>a</sup> and engages the segment of ratchet-teeth, where the head-rest is supported in its substantially horizontal  
80 position. In the upward movement of the head-rest portion of the device the throw-out part 10 is moved around on the pivot 5, on which it freely rotates until the stop-arm 10<sup>c</sup> comes in engagement with the stop 11, which  
85 limits this movement, and of course the pawl is then forced onto the upper end of the arm 10<sup>a</sup>, as before described.

Of course it will be understood that a similar device to that illustrated is provided on each side of the couch, and the device is comparatively small and compact and may be  
90 easily covered with upholstery, and thus present no objectionable appearance.

What I claim as new, and desire to secure by Letters Patent, is—

1. An adjusting device for movable couch-sections and the like, comprising a stationary part having a toothed segment, a movable

part pivoted on said stationary part and having a pawl engaging said toothed segment, a throw-out device pivoted concentrically with but independently of said movable part and  
5 adapted to disengage said pawl from said segment, and means for limiting the movements of said throw-out device.

2. An adjusting device for movable couch-  
sections and the like, comprising a stationary  
10 part having a toothed segment, a movable part pivoted on said stationary part and having a pawl engaging said toothed segment, a throw-out device pivoted concentrically with but independently of said movable part, and  
5 adapted to disengage said pawl from said segment; the arc of movement of said throw-out device being less than the arc of movement of said movable part.

3. An adjusting device for movable couch-

sections and the like, comprising a stationary 20  
part 3 having a toothed segment 6, a movable part 4 pivoted to said part 3, a pawl 7 carried by said movable part 4 and adapted to engage said toothed segment 6, and a throw-out de- 25  
vice 10 pivoted concentrically with but independently of said movable part 4; said throw-out device having a pawl-engaging lug 10<sup>a</sup> to actuate said pawl 7, and limiting-stops 10<sup>b</sup>, 10<sup>c</sup> to confine the movement of the throw-out device to an arc of less length than the arc of 30  
movement of said movable part.

In witness whereof I have affixed my signature, in presence of two witnesses, this 27th day of February, 1903.

GEORGE W. DRURY.

Witnesses:

A. E. WEEKS,

LE GRAND COLTON.