

Sept. 4, 1928.

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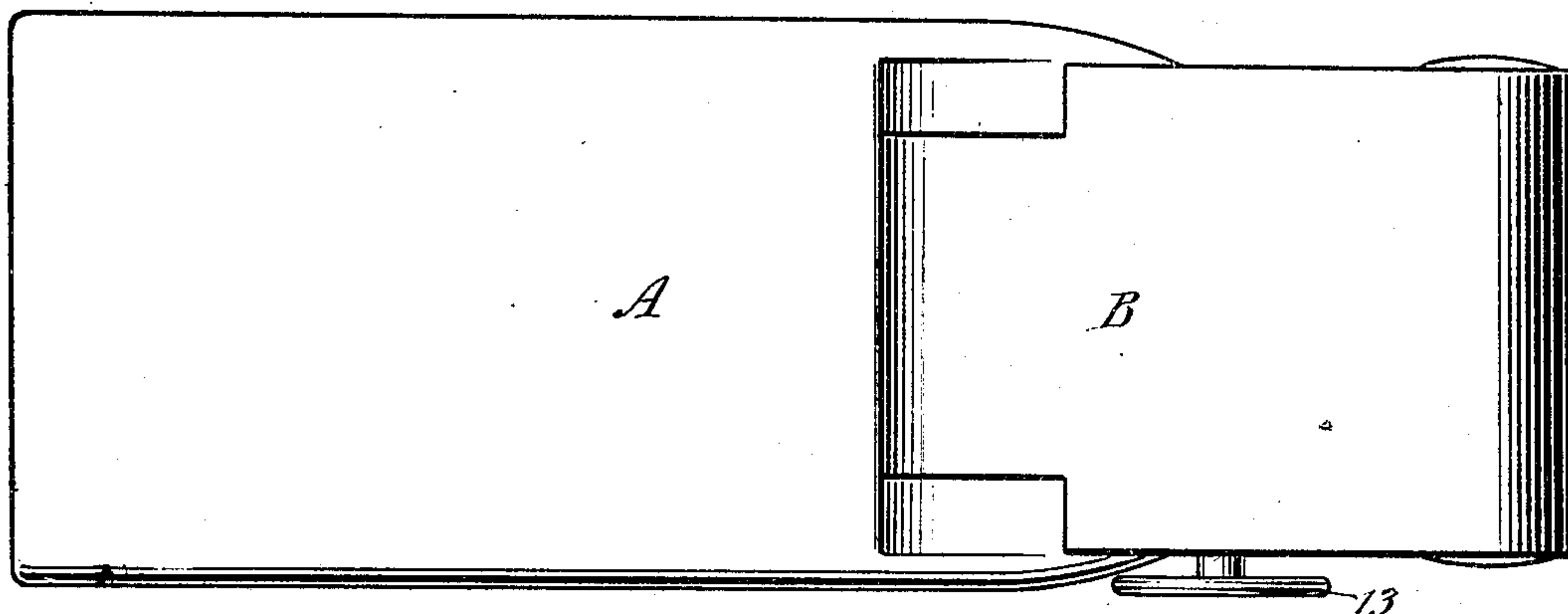
T. WOLF

RECLINING COUCH

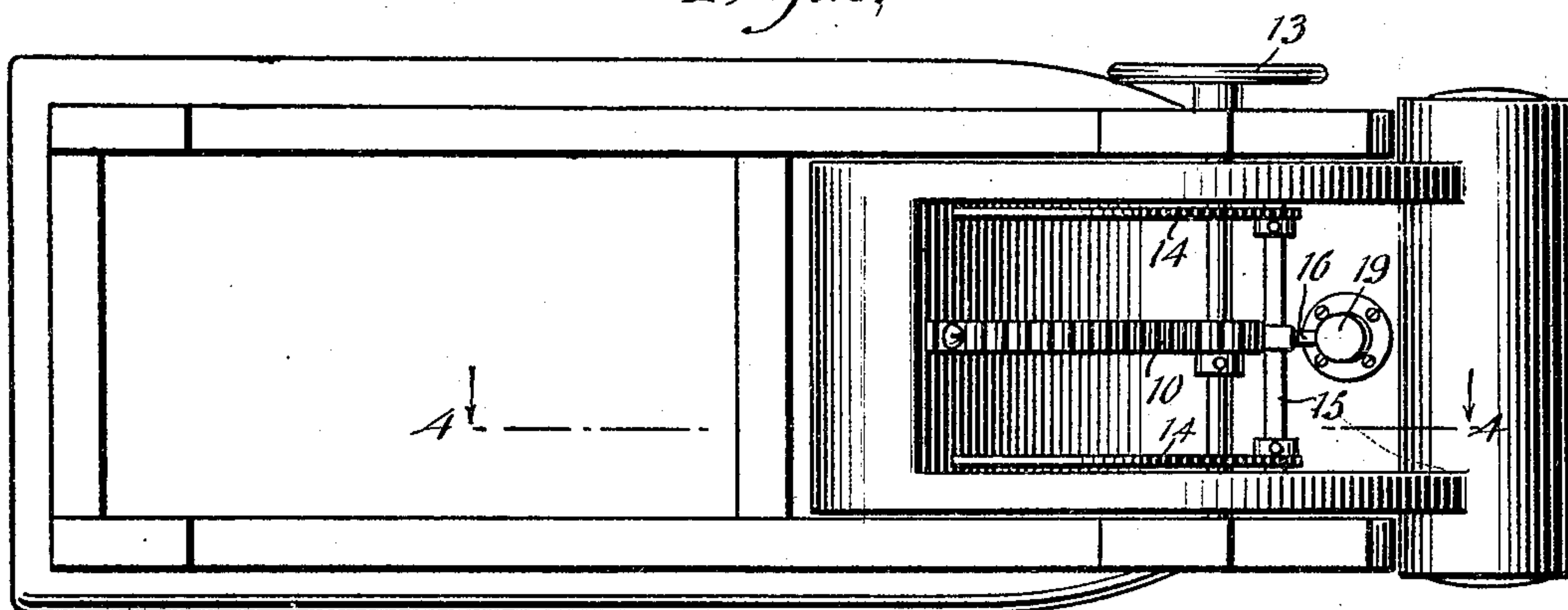
Filed June 27, 1927

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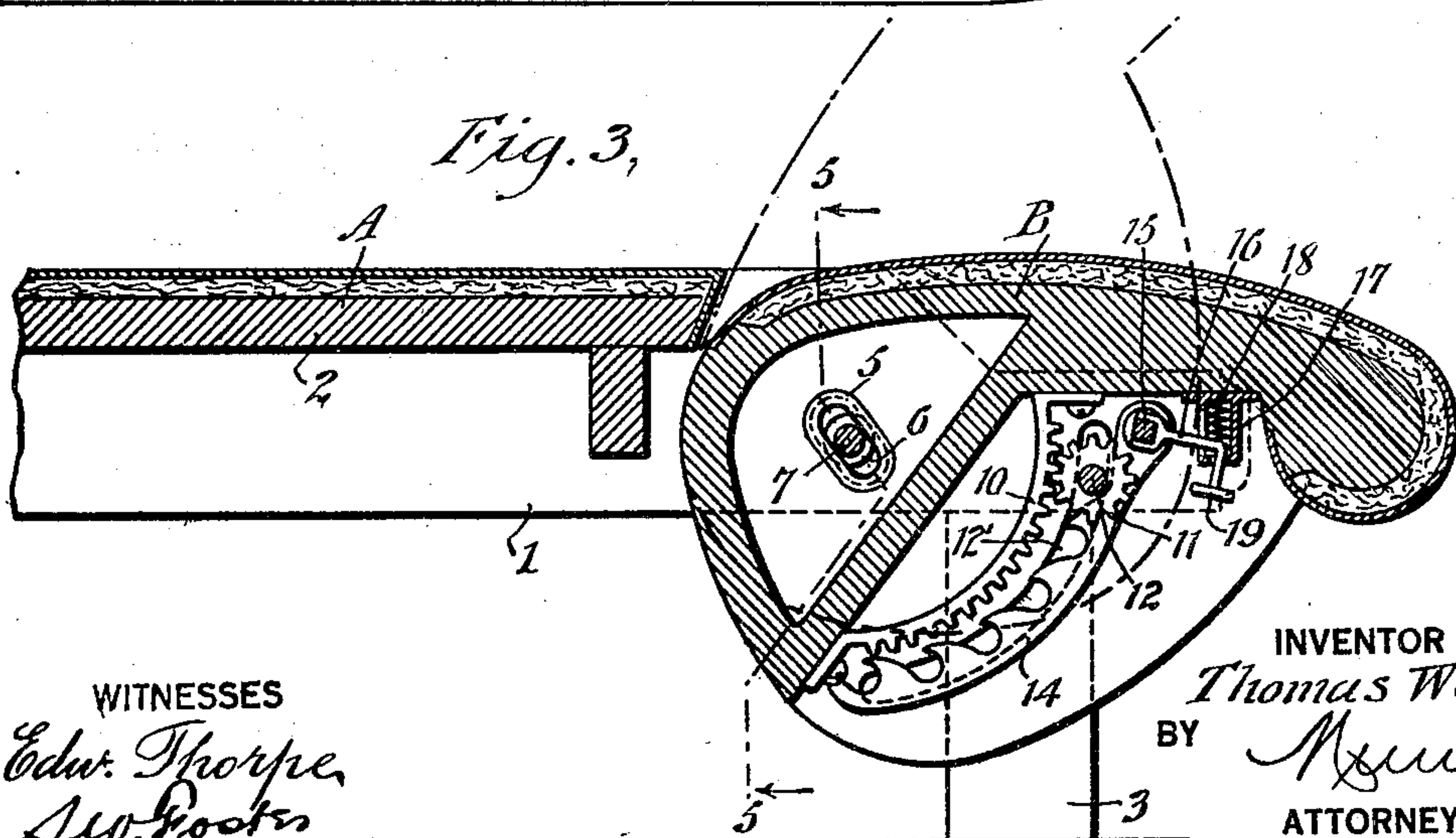
*Fig. 1,*



*Fig. 2,*



*Fig. 3,*



WITNESSES  
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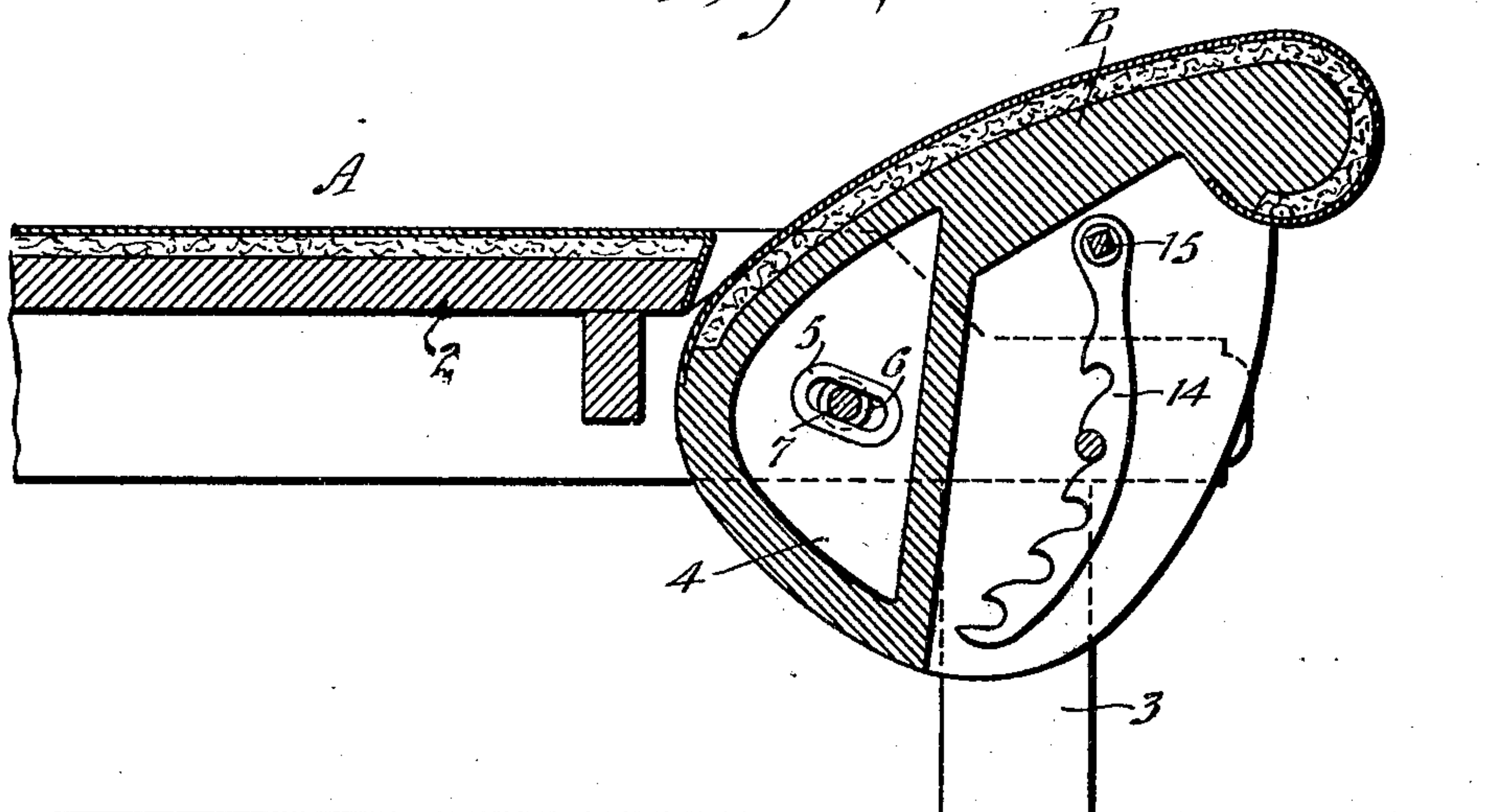
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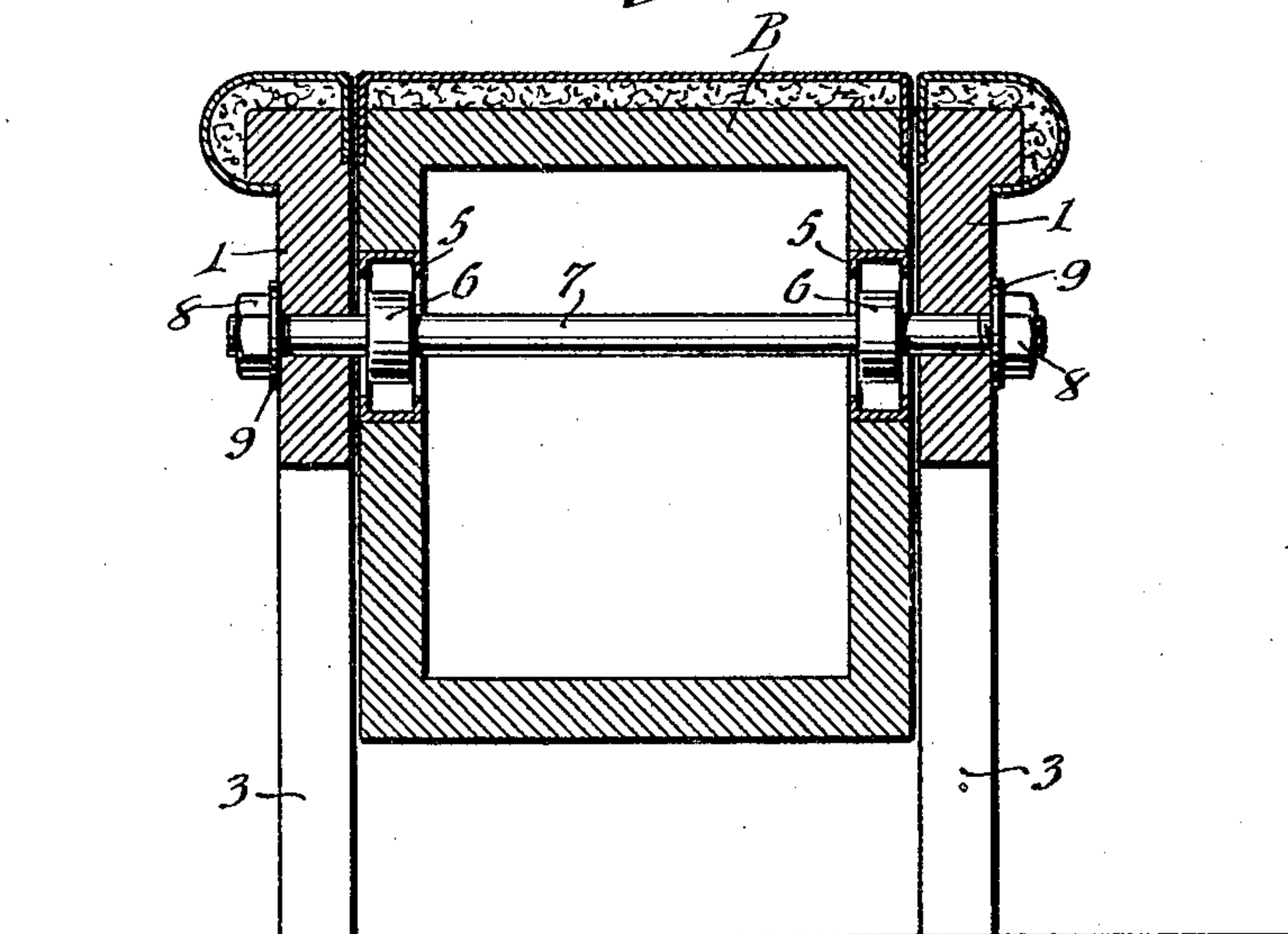
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*Fig. 4,*



*Fig. 5.*



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## UNITED STATES PATENT OFFICE.

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## RECLINING COUCH.

Application filed June 27, 1927. Serial No. 201,707.

This invention relates to reclining couches and more particularly to an improved means for adjusting the head section of the couch to any incline desired.

5 While I refer to my invention as a couch it is to be distinctly understood that the improvements may apply to a chair or other furniture, and while I do not wish to be limited to the use of the improvements in connection with a couch I shall hereinafter so describe the same to prevent repetition.

A further object is to provide a couch in which the head section may be manually moved to the desired angle and securely held in any position of adjustment.

A further object is to provide improvements of this character which are relatively simple in construction, strong and durable in use and which do not in any way disfigure the appearance of the couch or other article of furniture.

20 With these and other objects in view, the invention consists in certain novel features of construction and combinations and arrangements of parts, which will be more fully hereinafter described and pointed out in the claim.

In the accompanying drawings—

Figure 1 is a top plan view showing my invention as applied to a couch;

30 Figure 2 is an inverted or bottom plan view of the couch;

Figure 3 is a view in longitudinal section, taken through the center of the couch;

35 Figure 4 is a view in section on the line 4—4 of Figure 2, the head section of the couch being elevated;

Figure 5 is a view in vertical section on the line 5—5 of Figure 3.

A represents the body of the couch or other article of furniture, and B the head section.

40 The body A may be of any size desired, upholstered and ornamented in any way to suit the trade, but having side members 1, 1, a top member 2 and legs 3.

The side members 1, 1 extend beyond the top member 2 at one end of the couch so that the body portion is in reality bifurcated at this end to accommodate my improved head section B.

50 The head section B is ornamented, upholstered or decorated in any way desired, and has an opening 4 or hollow section at the end thereof adjacent the body of the couch. The side walls of this hollow section 4 are made with aligned slots, constituting tracks, on which rollers 6 of a pivot rod 7 are mounted.

This pivot rod 7 extends through the side

members 1, 1 of the body portion A and may be held in place by nuts 8 screwed onto the ends thereof, with washers 9 interposed between the nuts and the side members of the body. This roller and slot connection allows a certain amount of freedom of movement of the head section to properly adjust itself to the accommodation of the moving parts and coupling members which will now be described.

A toothed segment 10 is secured to the under portion of the head section B and a pinion 11 on a shaft 12 meshes with this segment 10. The shaft 12 is mounted in suitable bearings in the side members 1, 1 of the body portion A and preferably has a hand wheel 13 or other suitable device on one end thereof to facilitate the turning movement of the shaft and the movement of the head. The head section B has slots 12' therein to allow movement of the head section on the shaft 12.

A pair of arcuate ratchet bars 14 is fixed to a shaft 15 mounted in the head section B and are normally concentric with the segment 10. An arm 16 is fixed to the shaft 15 and is movable in a spring casing 17 against a coil spring 18, the coil spring tending to hold the bars 14 in normal operative position.

A push button 19 is secured to the arm 16 so that by manually moving this push button the bars 14 may be swung away from normal position.

I would have it understood that in referring to the normal position of the bars 14 I refer to that position in which the notches in the ratchet bar are in position to receive the shaft 12 and hold the head section at the position of adjustment desired.

95 The ratchet bars 14 have their notches or teeth so arranged that the head section may be lifted at its free end and the bars will ride over the shaft 12 until the desired adjustment is had, when the shaft 12 will find a resting place in the notches of the ratchet bar and be held thereby against movement in one direction. In other words, to move the head section B from a flat position, shown in Figure 3, it is simply necessary to lift the outer or free end of the section causing the same to pivot on the rod 7, and the ratchet bars will snap into engagement with the shaft 12 and hold the head section at any desired position of adjustment.

110 To lower the head section, the push button 19 is moved upwardly causing the bars 14 to move away from contact with the shaft 12,



and while the push button is thus held the head section may be lowered to the position desired when the bars will move back into engagement with the shaft by reason of the  
5 spring 18. During these positions of movement the pivot rod 7 has a certain amount of movement in the slots 5 so as to allow the head section to nicely accommodate itself and overcome any imperfections in the engagement of the pinion and the segment.  
10

The above described operation is of course performed when the operator is standing on the floor. When the operator is lying on the couch a final adjustment of the position of  
15 the head of the couch may be had by turning the handwheel 13 to operate the pinion 11 and rack 10.

While I have illustrated what I believe to be a preferred embodiment of my invention,  
20 it is obvious that various changes and altera-

tions might be made in the general form of the parts described without departing from my invention and hence I do not limit myself to the precise details set forth but consider myself at liberty to make such changes and  
25 alterations as fairly fall within the spirit and scope of the appended claim.

I claim:

An article of furniture, including a body portion, a head section having slots in its side  
30 walls, a pivot rod extending through the slots and mounted in the body portion, rollers on said rod in the slots, a shaft mounted in the body portion, a pinion on the shaft, a toothed  
35 segment on the head section engaged by the pinion, means on one end of the said shaft for manually turning the same, and ratchet means engaging the shaft to hold the head section in any position of pivotal adjustment.

THOMAS WOLF.