

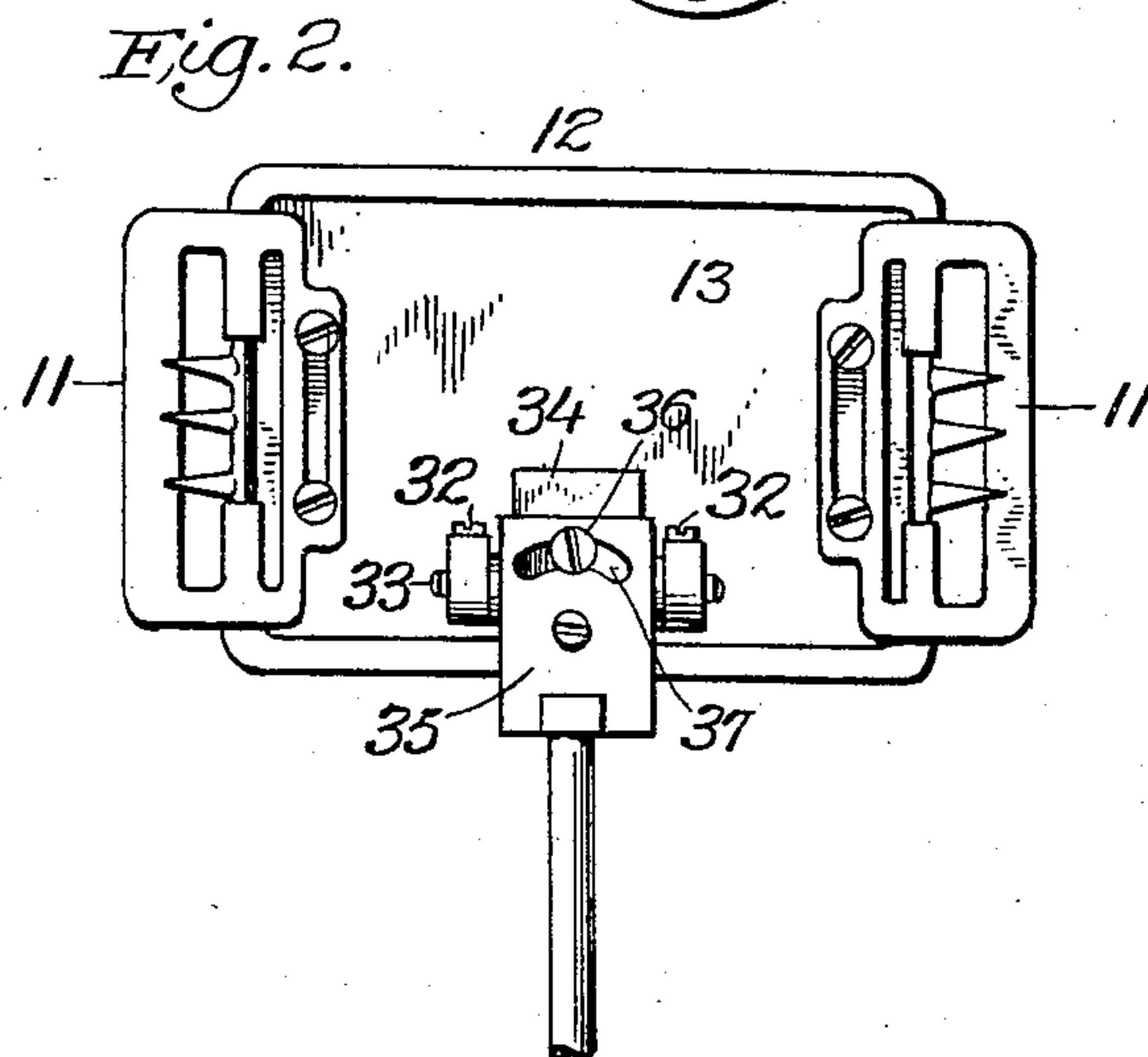
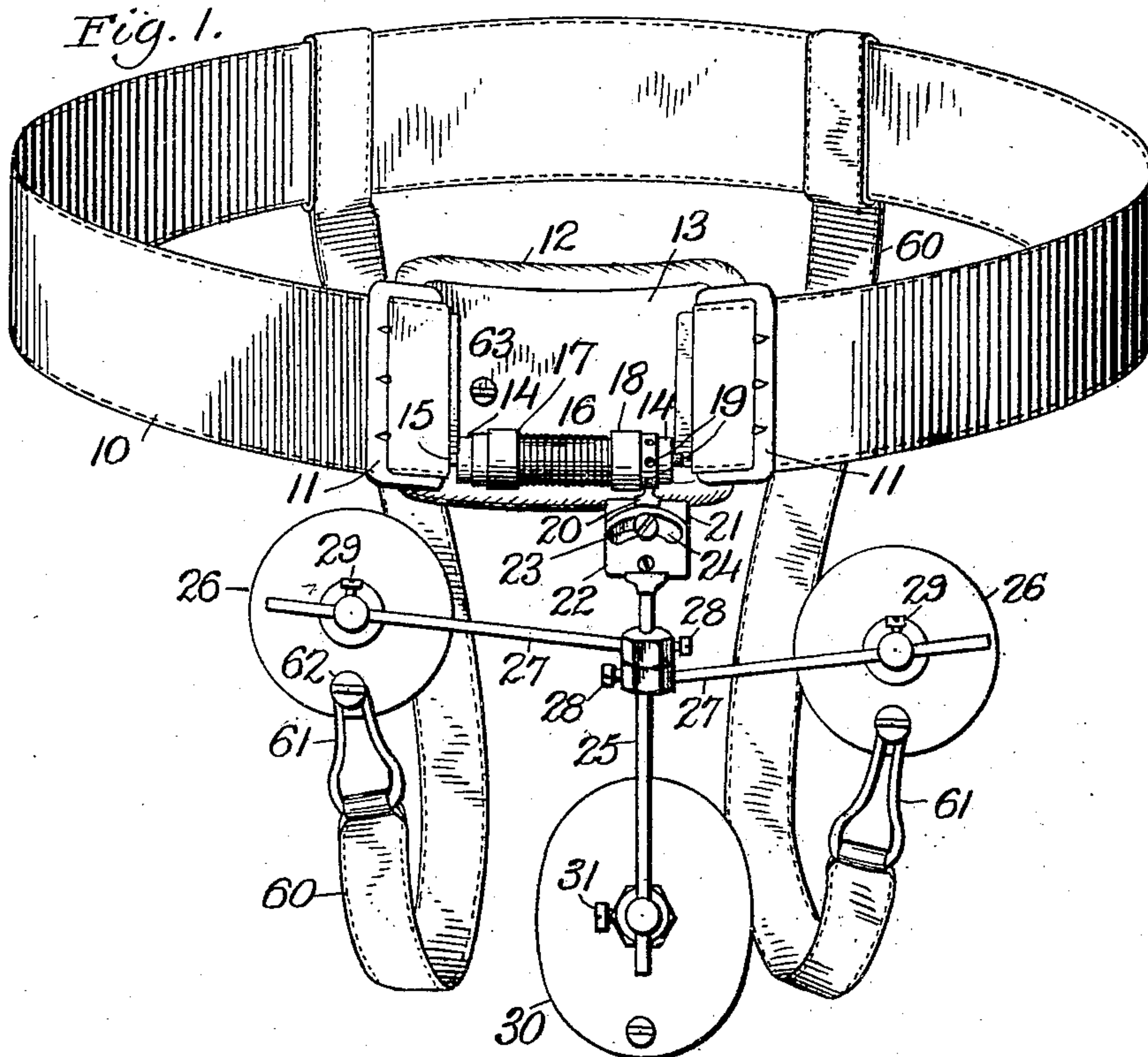
No. 870,519.

PATENTED NOV. 5, 1907.

F. C. D. McKAY.  
TRUSS.

APPLICATION FILED NOV. 10, 1906.

2 SHEETS—SHEET 1.



WITNESSES  
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2 SHEETS—SHEET 2.

Fig. 3.

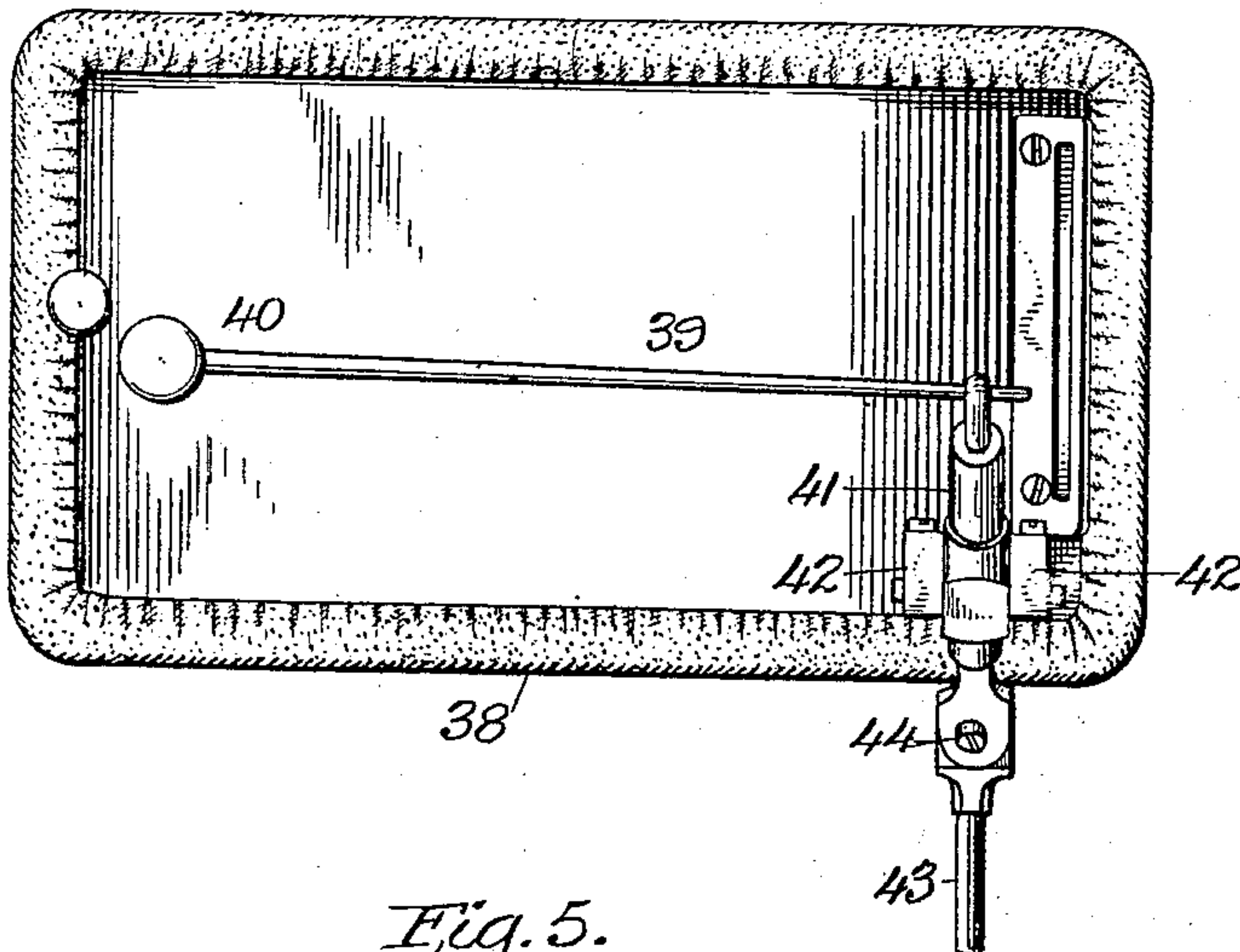


Fig. 4.

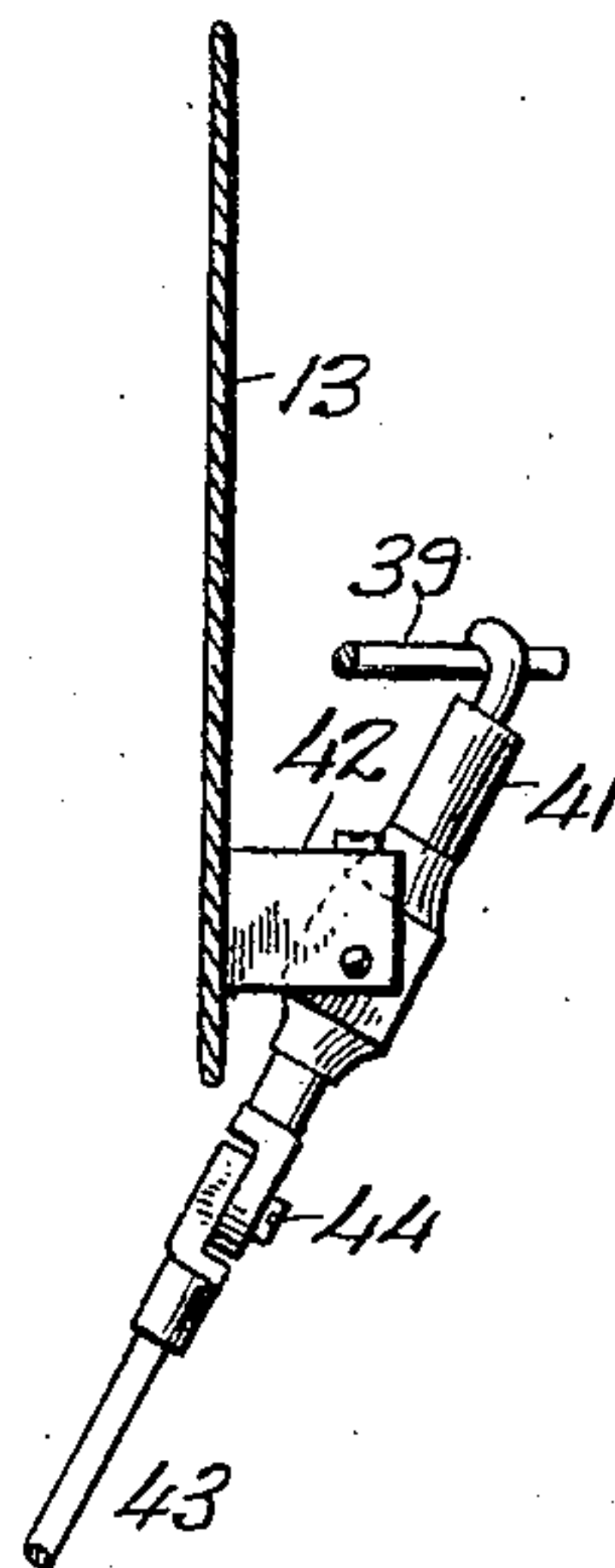


Fig. 5.

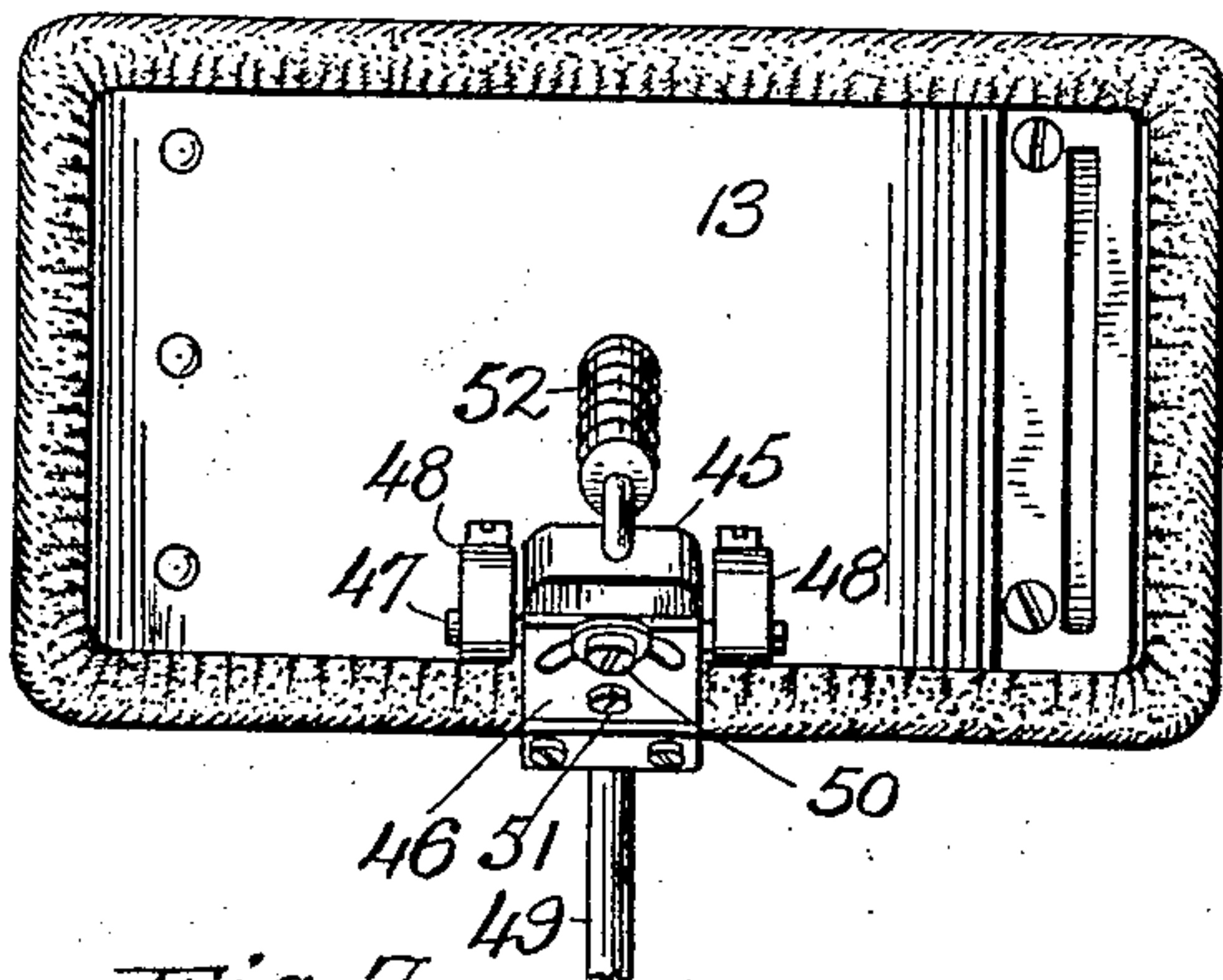


Fig. 6.

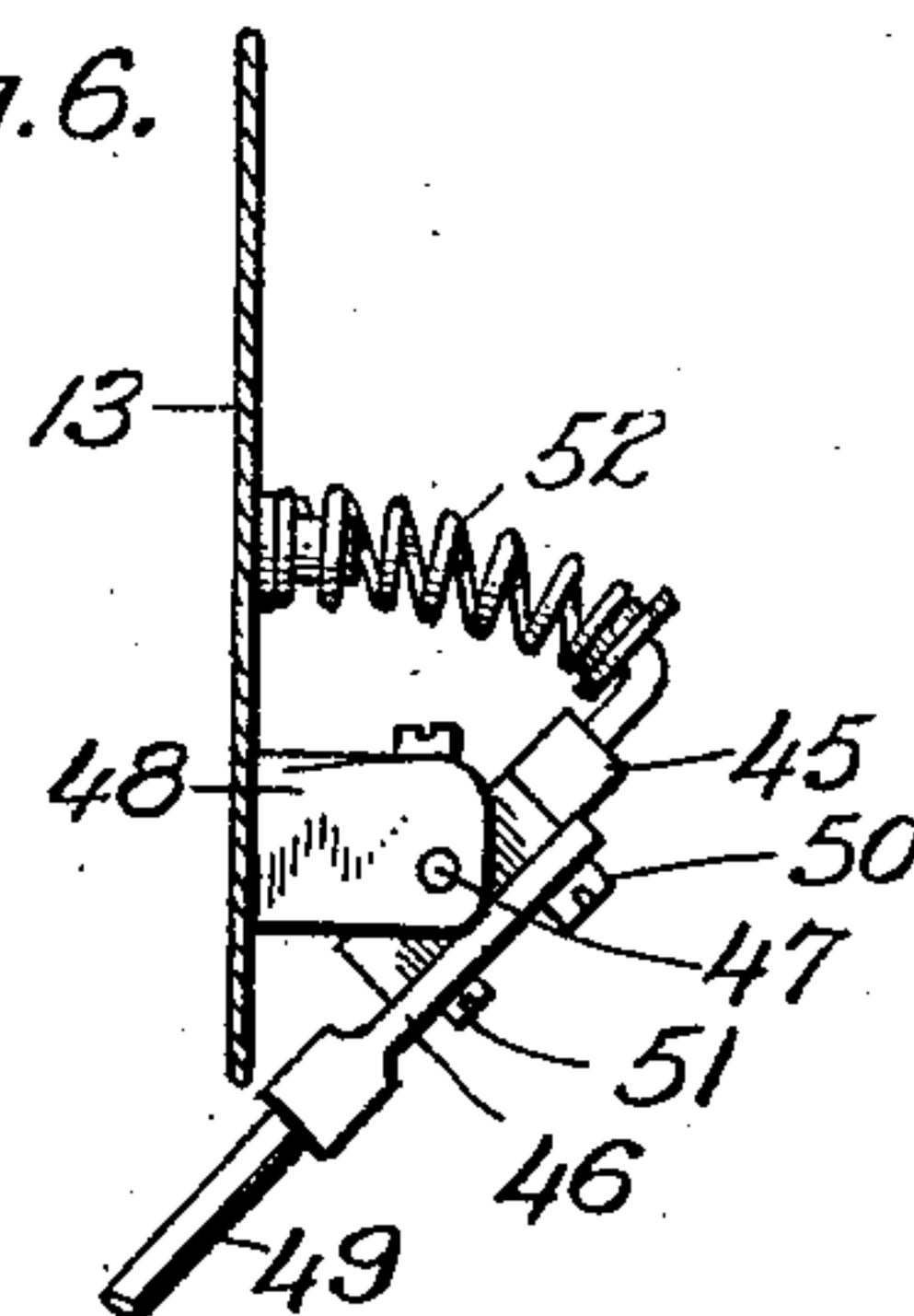


Fig. 7.

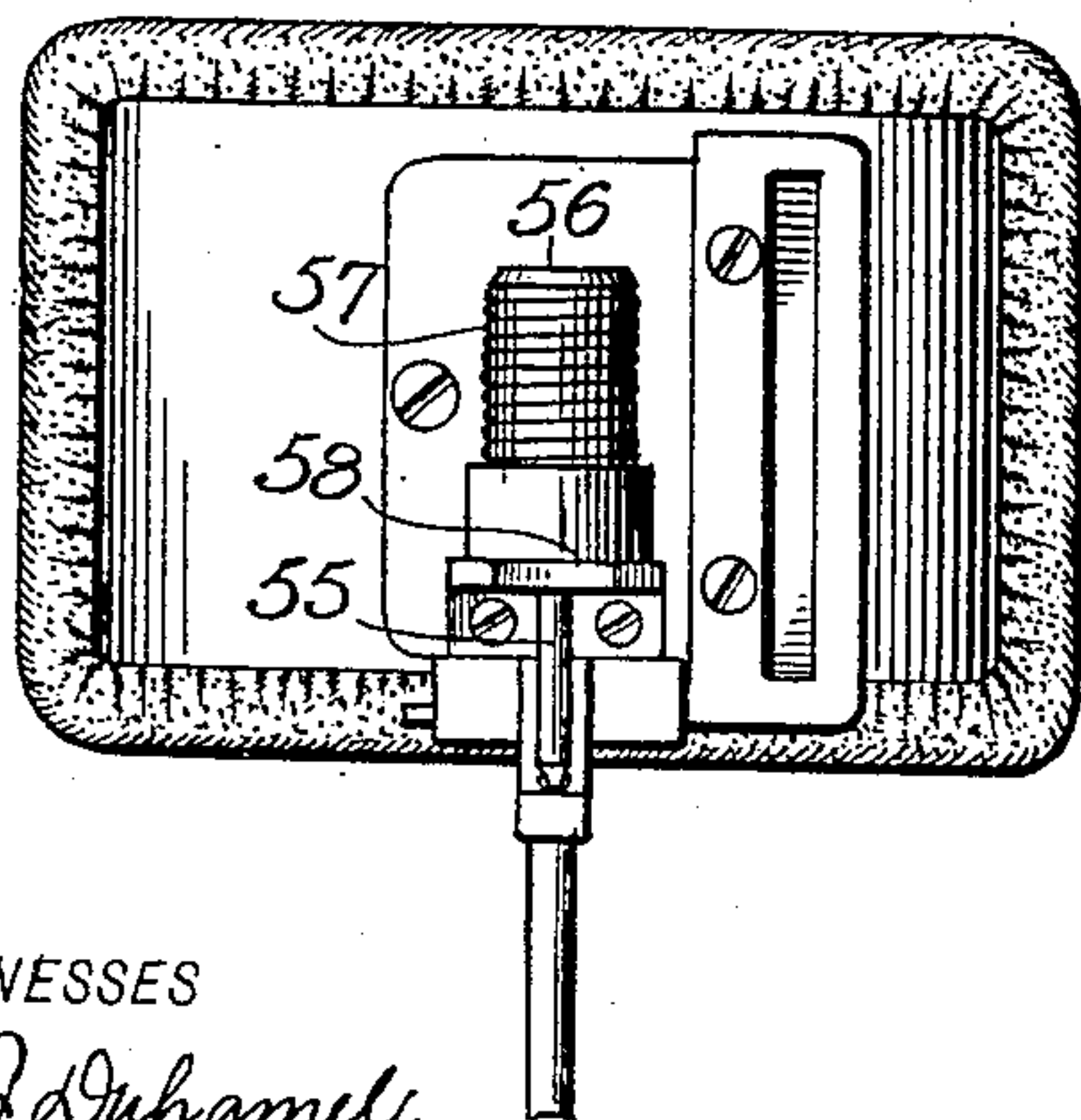
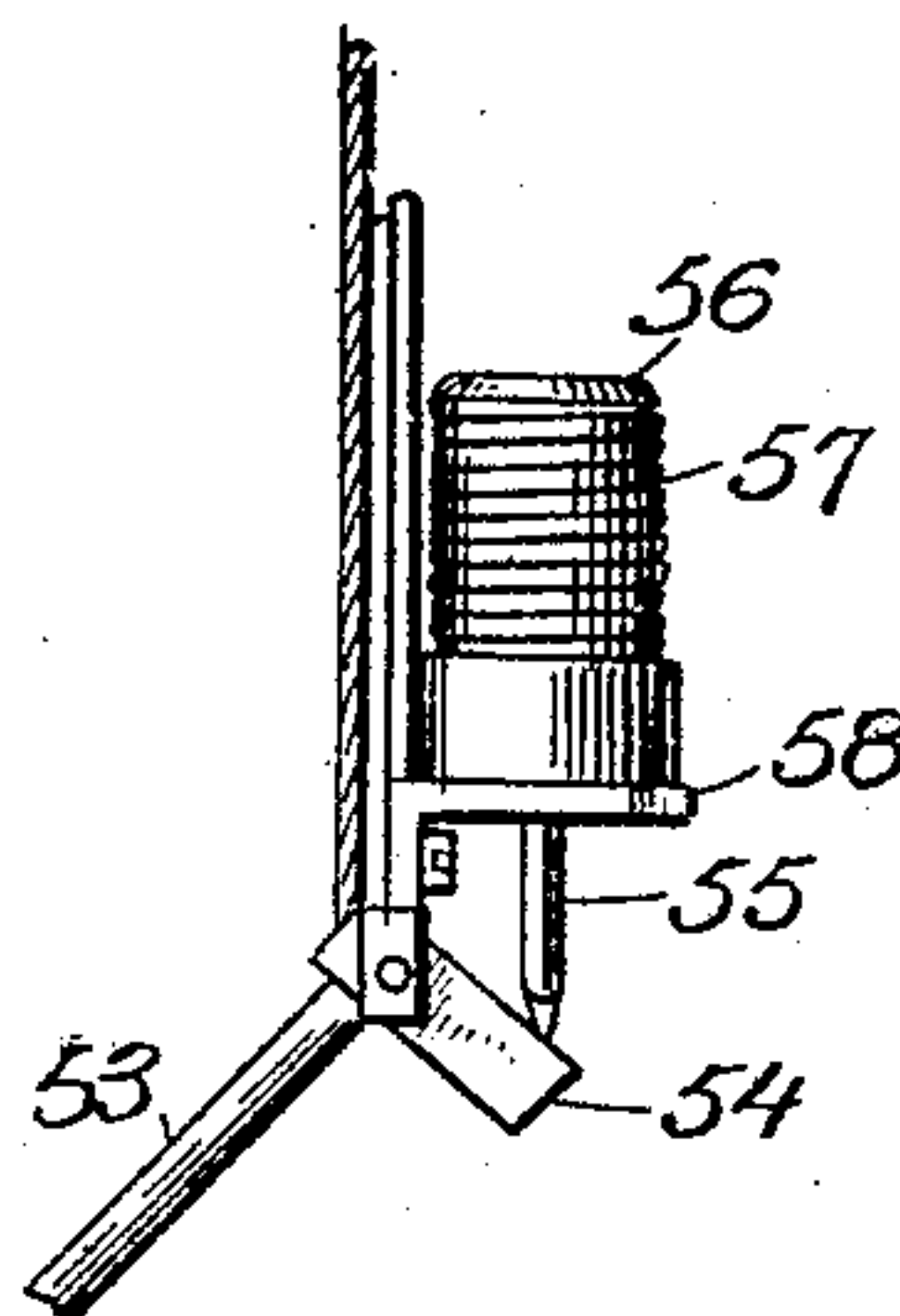


Fig. 8.



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# UNITED STATES PATENT OFFICE.

FERDINAND C. D. McKAY, OF WILLSEYVILLE, NEW YORK, ASSIGNOR TO WILLIAM L. McKAY,  
OF GENEVA, NEW YORK.

## TRUSS.

No. 870,519.

Specification of Letters Patent.

Patented Nov. 5, 1907.

Application filed November 10, 1906. Serial No. 342,874.

*To all whom it may concern:*

Be it known that I, FERDINAND C. D. McKAY, a citizen of the United States, and resident of Willseyville, in the county of Tioga and State of New York, have  
5 invented certain new and useful Improvements in Trusses, of which the following is a specification.

My invention relates to trusses and more particularly to that class carrying several pads which may be adjusted in different directions so that ruptures in different  
10 ent locations may be properly treated by the application of the pad to the desired spot, as will be described in the following specification set forth in the appended claims and illustrated in the accompanying drawings, wherein like reference characters are used to designate  
15 the same parts in the various figures.

Figure 1 is a perspective view of a truss showing how several pads may be employed. Fig. 2 is a face view of the combined buckle and pad showing the means for adjusting the additional pads. Figs. 3 and 4 are face  
20 and sectional views of the modified form of the pad and the stem for carrying additional pads. Figs. 5, 6, 7, and 8 illustrate other modified forms of the adjustable pad carrier.

As seen in the various figures the pad is adapted to  
25 be adjusted to accommodate the wearer and be capable of applying several pads in case it is necessary.

The belt 10 is of ordinary construction and its ends are caught by the buckle 11 secured to each end of a pad 12 whose inner surface is lined with some soft and  
30 comfortable material while the outer side is a curved plate or block 13 having projecting from its face brackets 14 which carry the shaft 15 upon which is wound a spring 16.

One end of the shaft has secured to it a collar 17 into  
35 which fits the end of the spring 16 while its other end is fitted in the socket of a loose sleeve 18 the outer end of which is provided with a number of perforations 19 around its circumference. These perforations are adapted to receive a pin 20 which may be set in any one  
40 of them so that the tension of the spring may be varied.

Depending from the pin 20 is a plate 21 which is pressed against the pad 12 by the spring 16 and pivoted on this plate is a slotted plate 22 which is adjusted on the former plate by means of a set screw 23 playing  
45 through the slot 24. This plate 22 carries a stem 25 and as shown in Fig. 1 any number of pads may be carried by this stem and adjusted thereon. The pads 26 are carried by horizontal arms 27 which are adjustable vertically and pivotally on the stem 25 and held in that  
50 adjustment by the screw 28.

In order to accommodate the pads 26 to the configuration of the body of the wearer they may be moved to a more or less distance apart on the shaft 27 as each case may require and when an oval pad is in use, and when  
55 adjusted is secured by means of the screws 29. For

certain cases of rupture the pad 30 may be employed and its vertical and axial adjustment may be effected by means of the screw 31.

In Fig. 2 is shown a modification applied to the pad 12, having its usual buckle 11, but the stem which carries the pads is in this instance not resilient but is  
60 loose on a cross bar 33 held in suitable brackets by means of screws 32, the bar 33 passing through an opening in the plate 34, and the latter is free to swing on said bar and yield to the movements of the body. 65 The plate 35 carrying the stem is adjustable as above described through the medium of the screw 36 which plays in the slot 37.

In the modifications shown in Figs. 3 and 4 an ordinary pad 38 is shown and which may be attached to  
70 the belt by any desired means but the means for producing the necessary pressure upon the pads is a spring 39 secured to a stud 40 and acting upon the upper end of the lever 41 which is pivoted in the brackets 42, to the lower end of the lever is swiveled the stem 43 75 and which may carry as many pads as desired. This stem is held in any desired position after being adjusted on the lever 41 by means of the screw 44.

In Figs. 5 and 6 is illustrated another modified form in which the adjustment is effected by means of the  
80 two plates 45 and 46 the former being provided with trunnions 47 which are pivoted in the brackets 48 while the plate 46 carries the stem 49 and is adjustable by means of the screws 50 and 51 while a stud on the upper end of the plate 45 presses against a spring 52 whose  
85 other end is also supported by the back plate of the truss.

Figs. 7 and 8 illustrate another means for affording pressure to the pad carried by the depending stem 53 which has a lateral arm 54 with a socket to receive the  
90 lower end of a rod 55 whose head 56 has secured to it one end of a spring 57 the other end of which is attached to a bracket 58 so that when the stem 53 is swung outward the tension of the spring 57 is applied to the rod 55 and the pressure of the stem and its pad increased. 95

While I have illustrated and described these several means for carrying a number of pads where one or more may be adapted for use and have pressure applied to them, either resilient or rigid it is obvious that similar means may be applied for this purpose other than what  
100 I have shown without departing from the essential features above described.

Where several pads are used it may be necessary to brace them by means of straps 60 which are looped around the belt 10 after passing around the limbs of  
105 the wearer are by means of hooks 61 secured to buttons 62 to the pads. In case it is desired to use but one of these straps it may be attached to the button 63 of the pad 12 or the similar pads as shown in the drawings.

While the drawings show the pads adjusted for rup- 110



tures below the belt this truss is readily applied for treatment to ruptures above the belt line by simply reversing the body pad 12 and properly securing the buckles 11 to throw the stem carrying the auxiliary pads upward and giving them the proper adjustment so that the pad or pads cover the afflicted spot. In this case the straps 60 are dispensed with and the springs for the pads is depended upon to hold the pad in its proper position on the rupture as these straps are only used when the rupture is below the belt and prevent the pads from working upward as is commonly the case when the pads are so located.

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

- 15 1. In a truss, the combination of a pad carrying buckles to which the belt is attached, an adjustable stem depending from the pad, a spring adapted to press the stem towards the body of the wearer, and one or more adjustable pads carried by the stem.
- 20 2. In a truss the combination of a pad secured to the belt, a stem pivoted to the said pad and adjustable on its pivots, a spring interposed between the pad and the stem to deliver a certain amount of tension to the stem, arms adjustable on the stem and carrying pads which are adjustable on said arms and an adjustable pad on the stem.
- 25 3. In a truss the combination of a pad having buckles at each end for the attachment of the belt, brackets on

the pad, a shaft in the brackets carrying a sleeve, a spring attached to the sleeve, a loose sleeve carried by the other end of the spring, a pin in the sleeve and carrying a plate, a second plate adjustable on the first and carrying a stem, pads adjustable on the stem and straps adapted to brace the pads and carried by the belt. 30

4. A truss including a spring pressed member, a pad carrying member adjustably secured to the spring pressed member, and a pad adjustably mounted upon the carrying member. 35

5. A truss including a spring pressed member, a pad carrying member mounted upon the spring pressed member, and a pad adjustably secured to the carrying member. 40

6. A truss including a spring pressed pad carrying member, and pads mounted upon said member, each of said pads being capable of independent adjustment.

7. A truss including a plate, a member pivotally mounted upon the plate, a spring adapted to exert tension upon the member, and a pad carrying member mounted upon said first named member. 45

8. A truss including a plate, a member pivotally mounted upon the plate, a spring adapted to exert tension upon the member, and a pad carrying member adjustably mounted upon the said first named member. 50

Signed at Candor in the county of Tioga and State of New York this tenth day of October A. D. 1906.

FERDINAND C. D. MCKAY.

Witnesses:

JAMES R. MEAD,  
WILL L. BEEBE.