

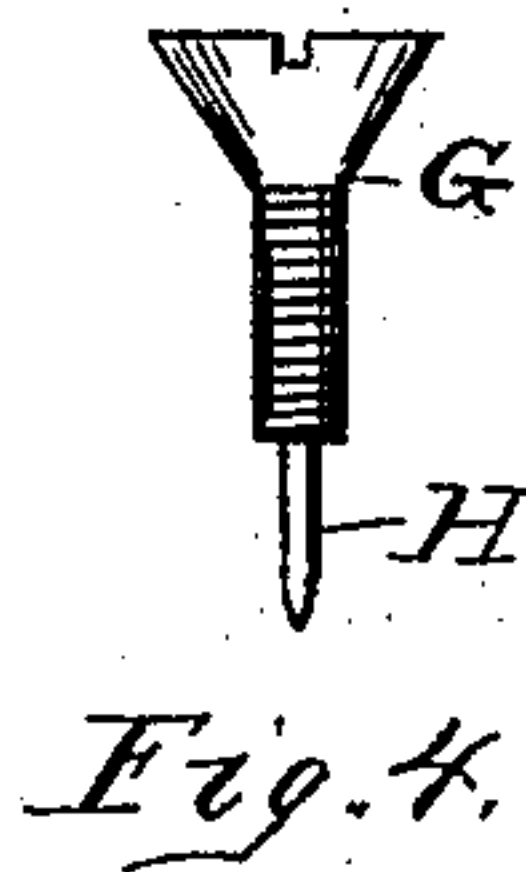
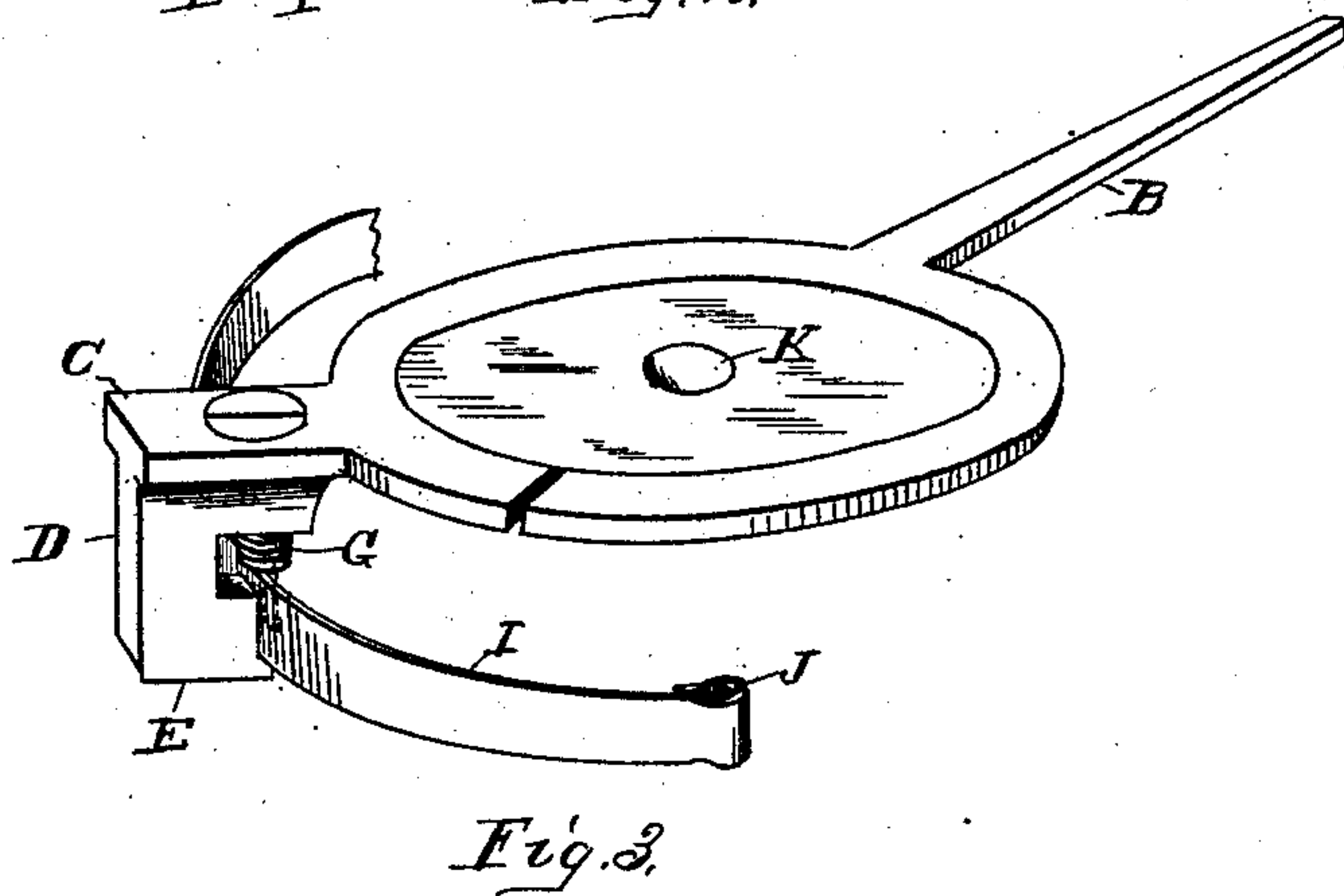
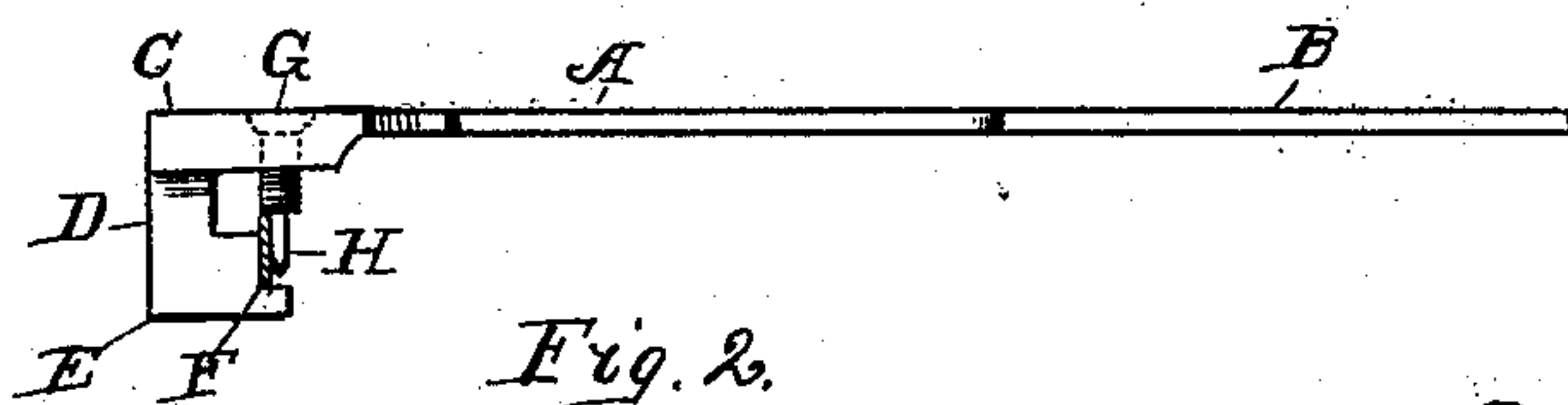
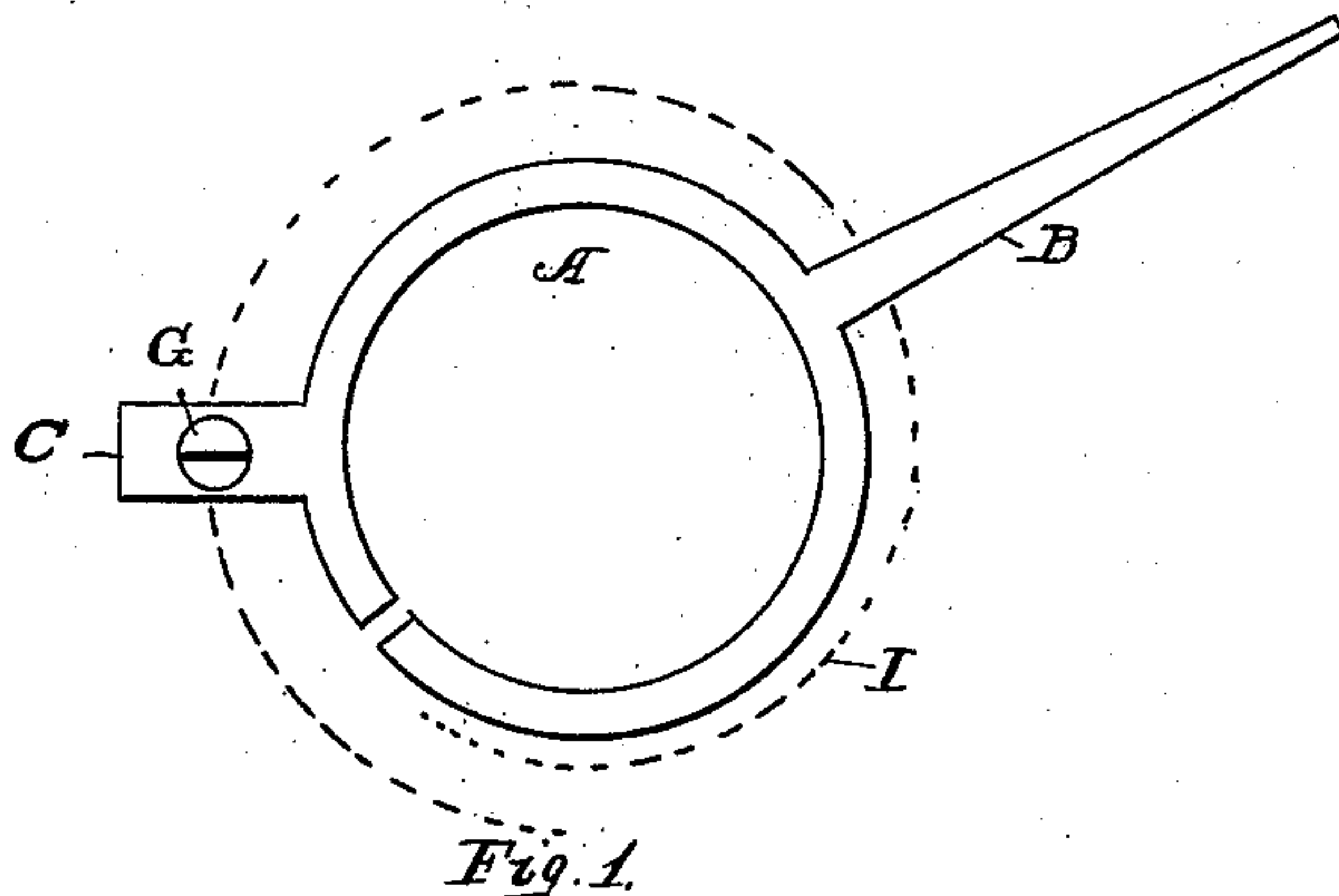
(No Model.)

W. WEIAND.

SCREW CLAMP PIN FOR WATCH REGULATORS.

No. 362,559.

Patented May 10, 1887.



WITNESSES:

*C. D. Jones*  
*Rugate of Kilop*

INVENTOR:

*William Weiland*

By

*J. D. Jones*

Attorney.

# UNITED STATES PATENT OFFICE.

WILLIAM WEIAND, OF NEW BREMEN, OHIO.

## SCREW-CLAMP PIN FOR WATCH-REGULATORS.

SPECIFICATION forming part of Letters Patent No. 362,559, dated May 10, 1887.

Application filed August 28, 1886. Serial No. 212,089. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM WEIAND, of New Bremen, in the county of Auglaize and State of Ohio, have invented a new and useful  
5 Improvement in Hairspring Incasements and Regulators, which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figure 1 is an enlarged plan view of a regulator or hairspring with my improved incasement attached thereto; Fig. 2, a side view; Fig. 3, an enlarged perspective view, and Fig. 4 a view of the incasement-screw detached.

As is well known, the usual inequality of  
15 watches in keeping time is caused by the hairspring being moved or disarranged; and to guard against such irregularities I provide a device which consists of an angled-arm extension and rabbet at one end so disposed as to  
20 permit the hairspring resting therein, while oppositely-disposed is an incasement-screw formed with a central lug, which, on being set, retains the hairspring permanently in position and prevents its moving by knocking or  
25 by accidentally dropping the watch, all of which will now be fully set forth in detail.

In the accompanying drawings, A represents an ordinary regulator having the regulating-arm B at one side, and nearly oppositely an  
30 arm, C, provided at its outer end with a vertical wing, D, formed at its lower end with an inturned lug, E, parallel with the arm C. The forward end of this lug E is provided with a rabbet or recess, F. Immediately above this rabbet F, through the arm C, I provide a set-  
35 screw, G, at its lower end, as shown in Fig. 4, provided with a vertical extension, H, or formed with an annular rabbet. The hairspring I, secured in position through the loop  
40 or opening J, at its forward end, rests within the rabbet F of the arm E, and the screw G

being set, the extension H passes down on the inner side of the hairspring I from the vertical wall of the rabbet F, thus incasing the hairspring securely in position.

The regulator A, being pivoted centrally at K, may be turned, thus moving the arm G, carrying the rabbet F along the hairspring I, by simply loosening the set-screw G. It will be noticed that this motion of the regulator  
45 is impossible when the set-screw is secured.

Having described my invention, what I claim as new is—

1. In a regulator having an arm provided with an angled extension, D, and the rabbet-arm E, to receive therein the hairspring secured in position by means of the set-screw G,  
55 as described, substantially as herein set forth.

2. The combination of the regulator A, having the arm C, provided with the angled extension D, and arm E, rabbeted at F, with the set-screw G and hairspring I, substantially as  
60 described.

3. The combination of the angled arm E, having therein the rabbet F and the set-screw G, vertical extension H, with the hairspring I, disposed within the rabbet F and secured in position by means of the set-screw G, substantially as herein set forth.

4. The combination of the regulator A, having arms B, C, and E, and the regulator-plate, with the rabbet F, set-screw G, vertical extension H, and hairspring I, the whole arranged as and for the purpose substantially as herein  
70 set forth and described.

In testimony that I claim the foregoing I have hereunto set my hand this 8th day of May, 1886, in the presence of witnesses.

WILLIAM WEIAND.

Witnesses:

EDWARD PURPUS,  
JACOB FRITZ.