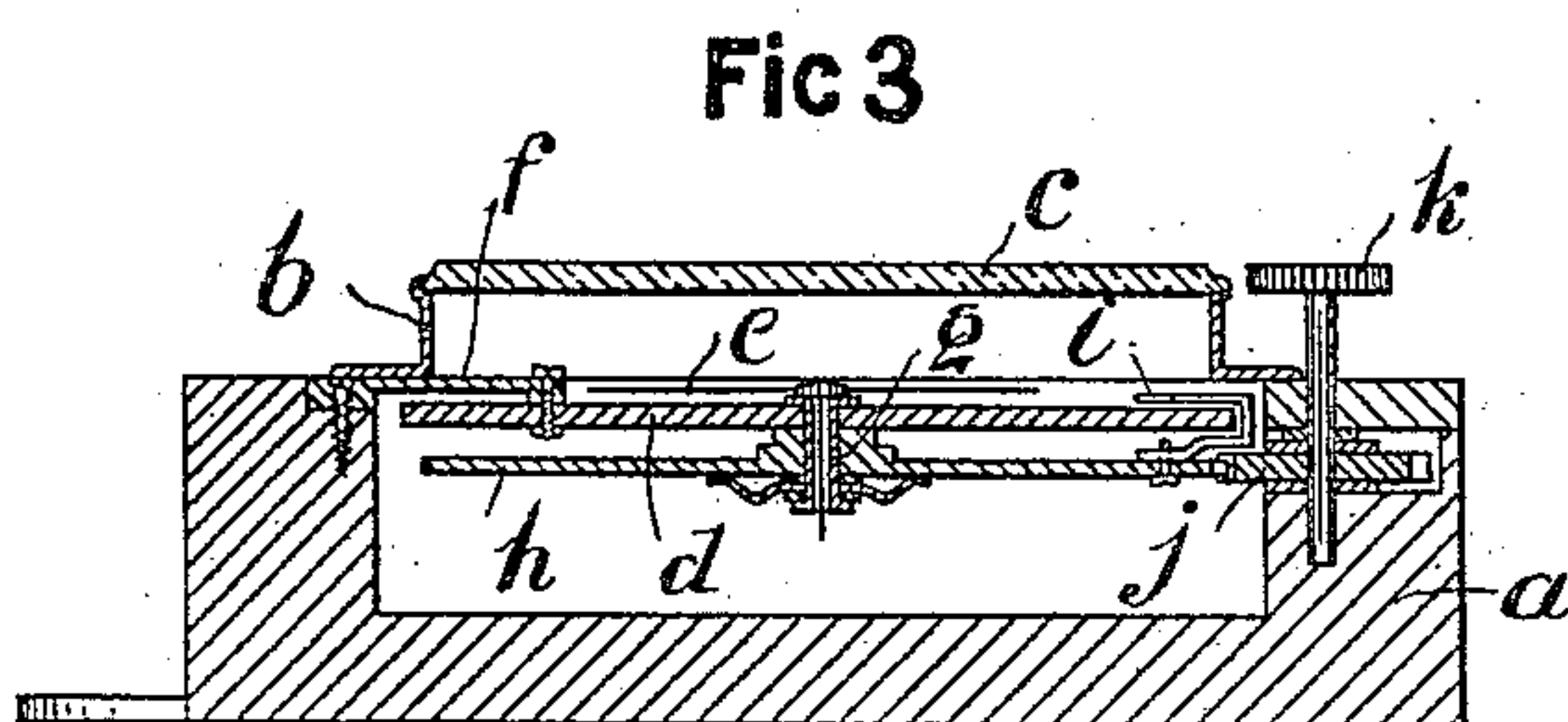
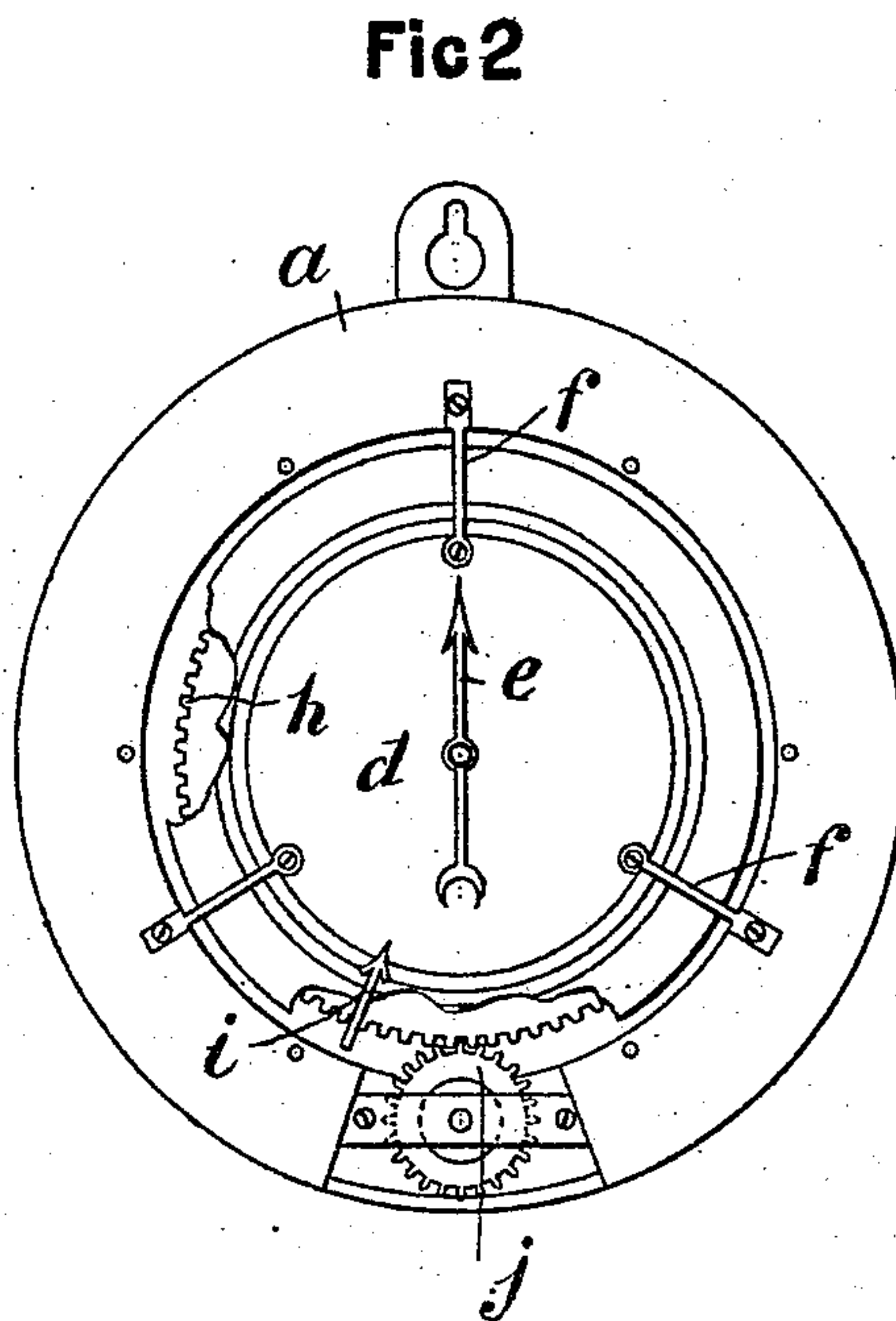
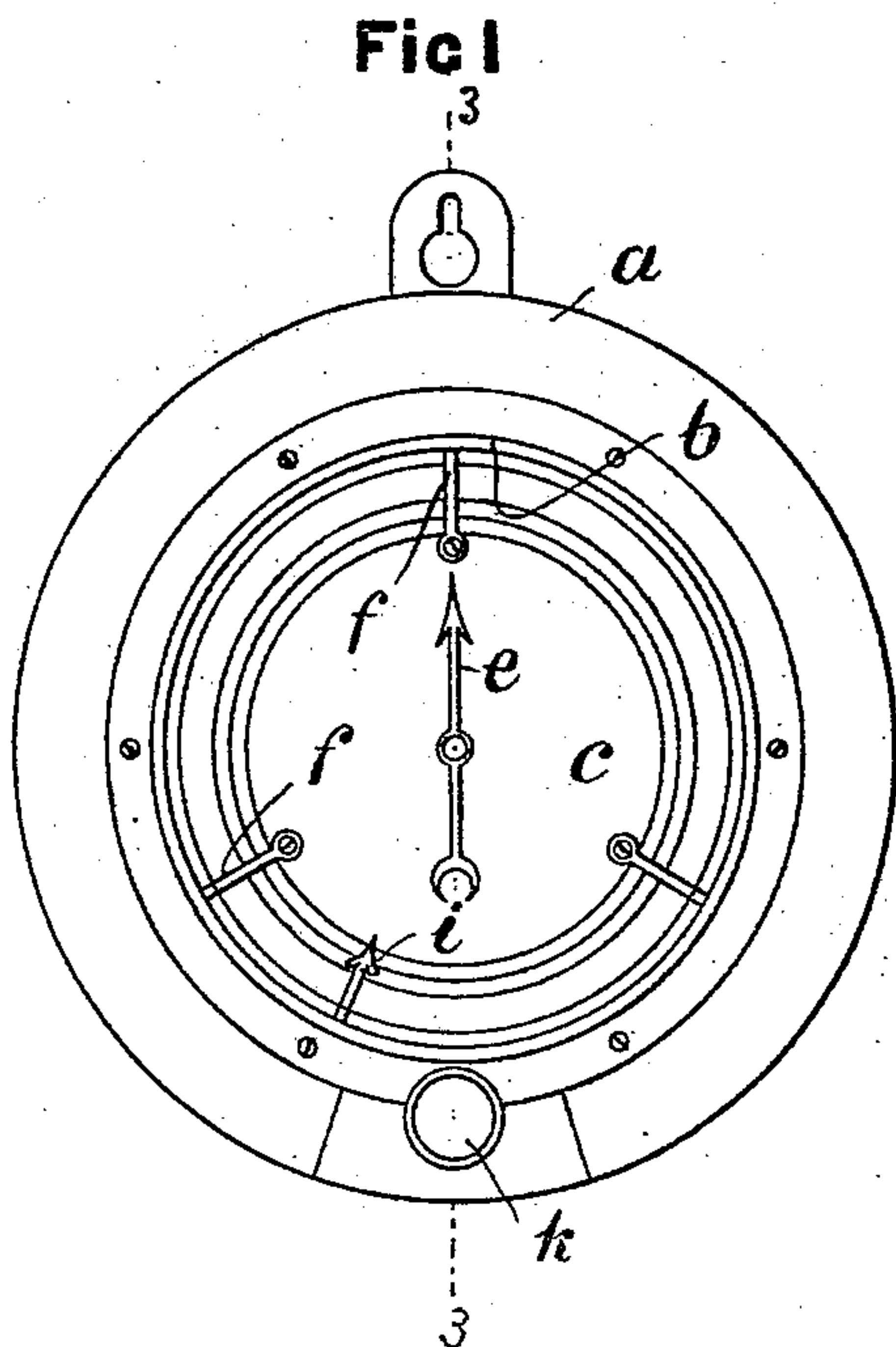


J. B. MITCHELL.  
SETTING OF BAROMETERS.  
APPLICATION FILED JUNE 3, 1909.

951,140.

Patented Mar. 8, 1910.



Witnesses.

*W. B. Mitchell*  
*J. B. Mitchell*

INVENTOR

*John Batten Mitchell*



# UNITED STATES PATENT OFFICE.

JOHN BATTEN MITCHELL, OF CLAPHAM JUNCTION, LONDON, ENGLAND.

## SETTING OF BAROMETERS.

951,140.

Specification of Letters Patent.

Patented Mar. 8, 1910.

Application filed June 3, 1909. Serial No. 499,936.

*To all whom it may concern:*

Be it known that I, JOHN BATTEN MITCHELL, a subject of His Majesty the King of England, residing at 57 St. Johns Hill Grove, Clapham Junction, London, England, have invented certain new and useful Improvements in the Setting of Barometers, of which the following is a specification.

This invention relates to improvements in means for checking the rise and fall in barometers.

The principal object of this invention is to enable a set hand revolving about the outer periphery of the dial to be set at any given circumferential point by means located outside of the bezel.

A further object is to support the dial from brackets projecting above the face of the dial and to provide a set hand capable of revolution between the face of the dial and the under side of the brackets.

The invention is illustrated in the accompanying drawings in which:—

Figure 1 is a front view of a barometer constructed according to the present invention. Fig. 2 is a similar view to Fig. 1 but with the bezel and crystal removed and parts of the dial broken away to disclose the setting means. Fig. 3 is a vertical section of the barometer upon the line 3—3 of Fig. 1.

Referring to the drawings, *a* designates the barometer casing, *b* the bezel, *c* the crystal, *d* the dial and *e* the indicating hand or pointer, the mechanism for actuating the latter not being shown.

To support the dial I secure to the top of the casing a number of radial arms *f*, a convenient number being three set equidistant apart, and to these arms is fastened the dial *d* which is placed under the arms so that it is suspended therefrom. The point of attachment between the arms and the dial is at a distance from the periphery of the dial sufficient to provide clearance for the set hand, hereinafter referred to, to pass under the arms when being moved around the dial. Through the center of the dial, I secure a hollow arbor *g* which extends beyond the under face of the dial and has suitably revolubly mounted thereon a toothed wheel *h*.

To the upper face of the wheel *h*, is secured a set hand *i* which is bent or curved to extend over the front of the dial *d* and

to clear the wheel *j* which is revolubly mounted in the side of the casing and is arranged to engage with the wheel *h* for turning the same, sufficient clearance between the dial *d* and the wheels *h* and *j* being provided for, to allow the set hand *i* to pass between the dial and the wheel *j*. The spindle of the latter wheel is preferably provided with a milled edge turning button *k* conveniently positioned to be flush with the crystal *c*. With this arrangement the set hand can be positioned at any point of the entire circumference of the dial *i. e.*, the wheel *d* and its set hand *i* can be completely rotated.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent of the United States of America is:—

1. In a barometer the combination with a casing, a dial and an indicating hand, of a bezel mounted on said casing, a solid crystal mounted in said bezel, brackets mounted on said casing between said dial and said crystal for supporting said dial at points within the circumference of said crystal and adapted to provide a clearance space between the face of said dial and the under sides of said brackets and between the points of attachment to said dial and points located outside the periphery of said dial, a wheel adapted to be rotated about the center of said dial, a set hand secured to said wheel and adapted to pass between said brackets and the face of said dial and means located outside of said bezel for rotating said wheel.

2. In a barometer the combination with a casing, a dial and an indicating hand, of a bezel mounted on said casing, a solid crystal mounted in said bezel, brackets mounted on said casing between said dial and said crystal for supporting said dial at points within the circumference of said crystal and adapted to provide a clearance space between the face of said dial and the under sides of said brackets and between the points of attachment to said dial and points located outside the periphery of said dial, a wheel revolubly supported by said dial, a set hand secured to said wheel and adapted to pass between said brackets and the face of said dial and means located outside of said bezel for rotating said wheel.

3. In a barometer the combination with a casing, a dial and an indicating hand, of a bezel mounted on said casing, a solid crystal

mounted in said bezel, brackets mounted on  
said casing between said dial and said crys-  
tal for supporting said dial at points within  
the circumference of said crystal and adapt-  
5 ed to provide a clearance space between the  
face of said dial and the under sides of said  
brackets and between the points of attach-  
ment to said dial and points located outside  
the periphery of said dial, a hollow arbor  
10 centrally mounted in said dial, a wheel rev-  
olubly mounted on said arbor, a set hand

secured to said wheel and adapted to pass  
between said brackets and the face of said  
dial and means located outside of said bezel  
for rotating said wheel. 15

In testimony whereof I affix my signature  
in presence of two witnesses.

JOHN BATTEN MITCHELL.

Witnesses:

A. G. BARNES,  
S. COULSON.