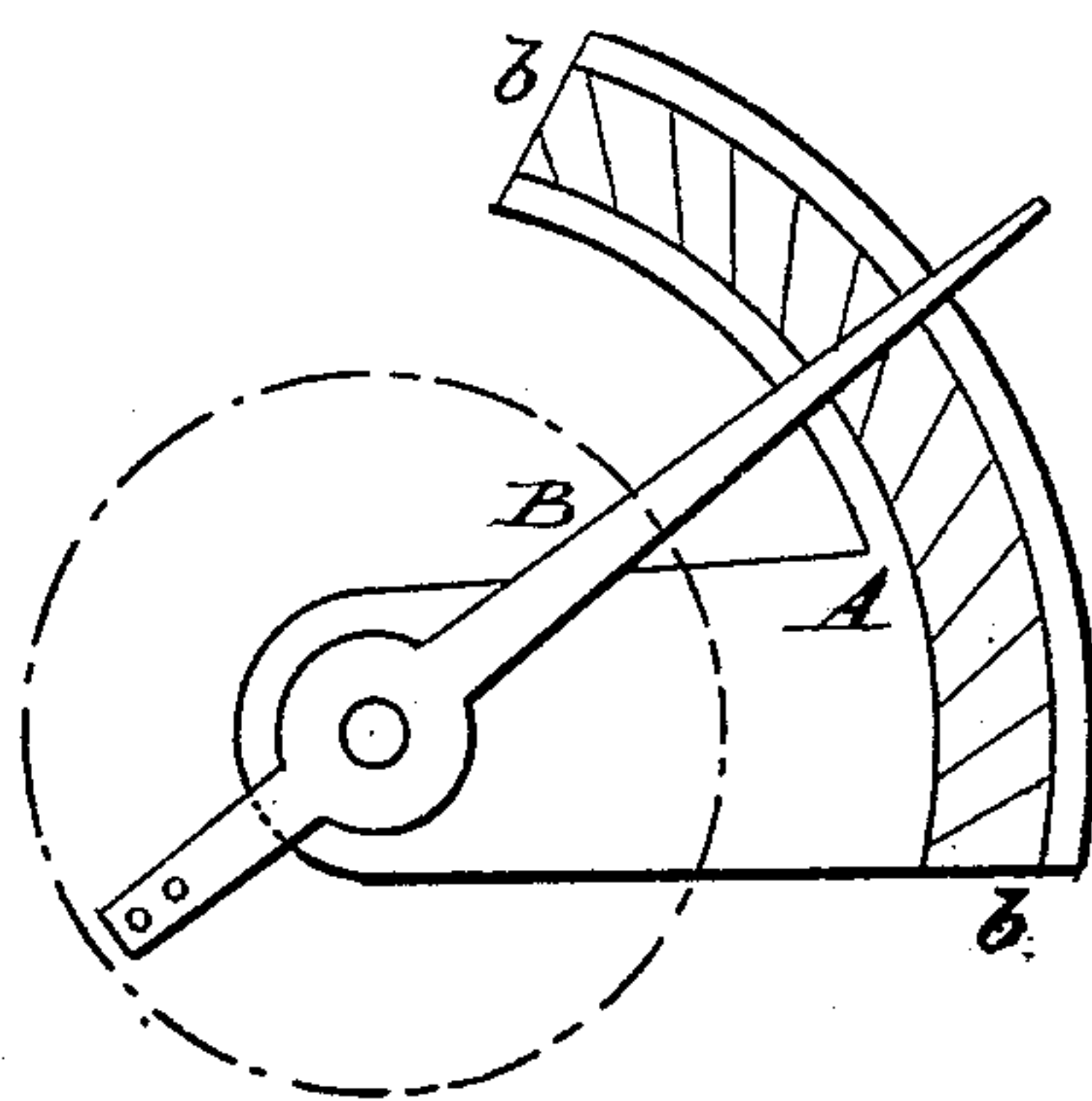


J. L. HYDE.
Watch Regulator.

No. 61,204.

Patented Jan. 15, 1867.



Witnesses:

J. W. Connely
G. W. Reed.

Inventor:

J. L. Hyde

United States Patent Office.

J. LITTLE HYDE, OF NEW YORK, N. Y.

Letters Patent No. 61,204, dated January 15, 1867.

IMPROVEMENT IN REGULATORS FOR WATCHES.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, J. LITTLE HYDE, of the city, county, and State of New York, have invented a new and useful Improvement in Regulators for Watches; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, making a part of this specification, which is a plan view of a regulator constructed according to my invention.

This invention consists in so constructing the index and scale of a watch regulator that the edge of the index shall form an angle with the lines of the scale, so that the said lines shall always be but partially covered by the index, whereby not only much less delicacy of sight and touch is required in making any desired adjustment of the index than has been the case with regulators constructed in the ordinary way, but the said index may also be adjusted with greater exactness.

To enable others to understand the nature and construction of my invention, I will proceed to describe, with reference to the drawings, what I consider the best construction of my invention.

A represents the plate, and B the index or lever of the regulator. The scale of the regulator is shown at *b*, and is engraved upon the surface of the plate A on the arc of a circle concentric with the axis of the index or lever B. The long or pointed arm of the said index extends over the scale in the usual or in any suitable manner. The graduated lines which mark the divisions of the scale *b*, instead of being radial to the axis of the index or lever, as in those in common use, are tangential to a common circle concentric with the said axis of the index or lever, so that the said graduated lines are drawn at an angle to the index or lever to whatever point the same is turned. In the drawing, the circle to which the graduated lines of the scale are tangential is shown in red color. Inasmuch as the index or lever is situated at an angle to each of the graduated lines of the scale while crossing the same, as just herein fully set forth, the said index cannot entirely cover the whole length of any one of the said lines, no matter in what position the lever may be placed, and consequently a portion of each line over which it is required to move the lever in passing over it, so that much greater facility is afforded for bringing the lever to any desired line than would be the case if the lines over which it is necessary to move the lever were entirely hidden underneath the same during such movement thereof; and, furthermore, by bringing the edge of the lever to any desired point along the length of the proper line, the said lever may be adjusted with greater nicety and exactness than if it was required to adjust it between the radial lines of an ordinary scale. The same result may be accomplished with a scale having graduated lines radial to the axis of the index or lever by so bending or shaping the outer end of the said index that it will cross the said radial lines of the scale in the same manner that the radial index crosses the tangential lines of the scale, when the regulator is constructed in the manner first herein described.

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

So constructing the index and scale of the regulator that the edge of the index shall form such an angle with the lines of the scale that one of the said lines shall always be but partially covered by the index, substantially as herein described, for the purpose specified.

J. LITTLE HYDE.

Witnesses:

J. W. COOMBS,

G. W. REED.