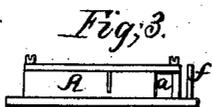
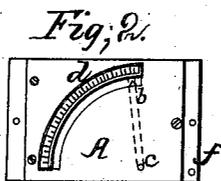
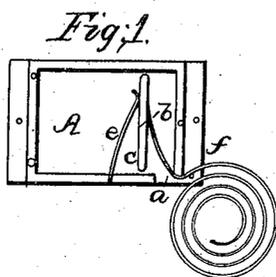


M. A. PLYMPTON.
MEASURING THE STRENGTH OF WATCH SPRINGS.
No. 62,775. Patented Mar. 12, 1867.



Witnesses;

M. B. Livingston

Inventor;

M. A. Plympton
Per Munn & Co
Attorneys

United States Patent Office.

N. A. PLYMPTON, OF NORTHBOROUGH, MASSACHUSETTS.

Letters Patent No. 62,775, dated March 12, 1867; antedated February 25, 1867.

IMPROVEMENT IN MEASURING THE STRENGTH OF WATCH-SPRINGS.

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, N. A. PLYMPTON, of Northborough, Worcester county, State of Massachusetts, have invented a new and improved Gauge for Measuring the Strength of Main-Springs; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification, in which—

Figure 1 represents an elevation of the inside mechanism of my gauge.

Figure 2 is a face view of the same.

Figure 3 is a side elevation of the same.

Similar letters of reference indicate like parts.

This invention relates to a gauge by which a watch-maker is enabled to compare the strength of different springs in such a manner that if the spring of a watch breaks it is easy to find another of equal power to take its place.

My gauge consists of a chamber A, which may be square, or of any other form or shape, to which access is had through a slot, a, in its edge, which is large enough to admit the end of the spring to be tried. In the interior of the chamber is a lever, b, which has its fulcrum on a pivot, c, and the loose end of which is bent up and projects through a segmental slot in the face of the chamber, forming an index which traverses over the scale d. A spring, e, has a tendency to keep this index opposite the starting points of the scale. The spring to be tried is passed through the slot a into the chamber A as far as it will go; then, by bringing it back to the pin f, the full strength is thrown on the lever b, forcing the index around on the scale to the number representing its power.

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

The index lever b, in combination with the chamber A, slot a, and pin f, constructed and operating substantially as and for the purpose described.

N. A. PLYMPTON.

Witnesses:

HENRY E. HAYWARD,

ANDREW B. EDDY.