

(No Model.)

S. E. WARD.  
THERMOMETER SCALE.

No. 483,662.

Patented Oct. 4, 1892.

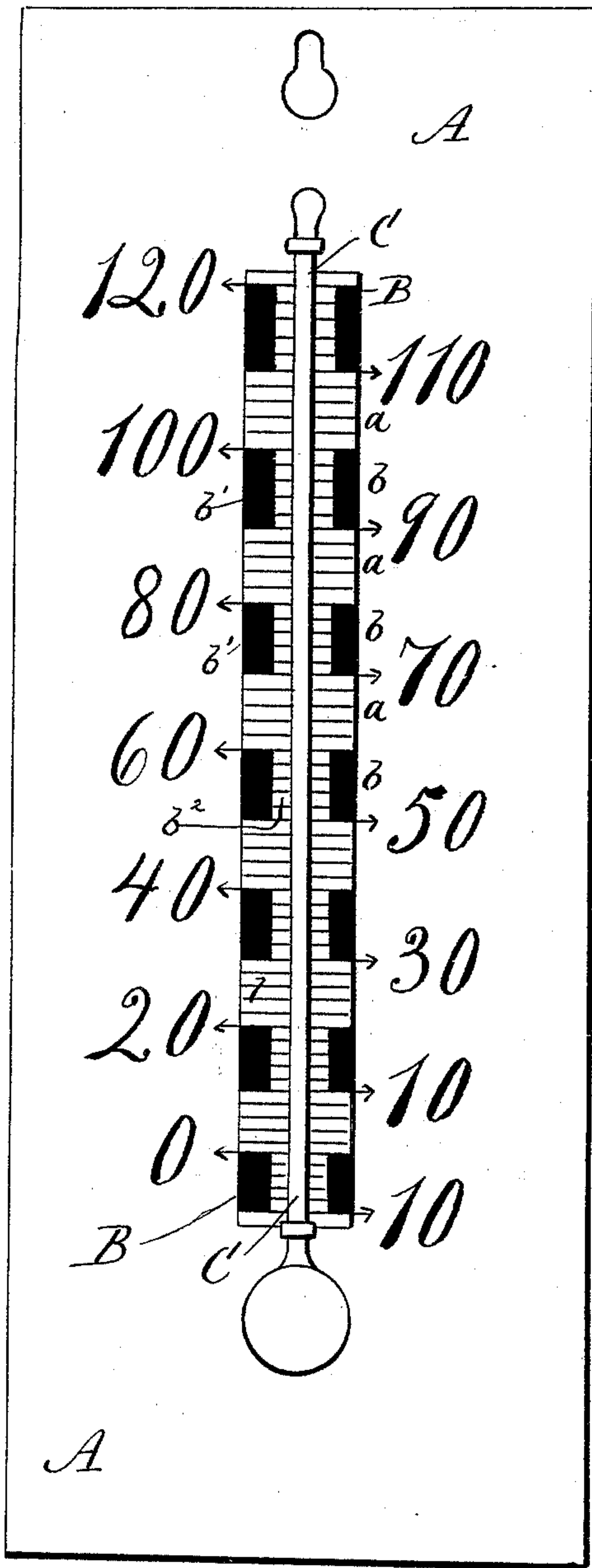
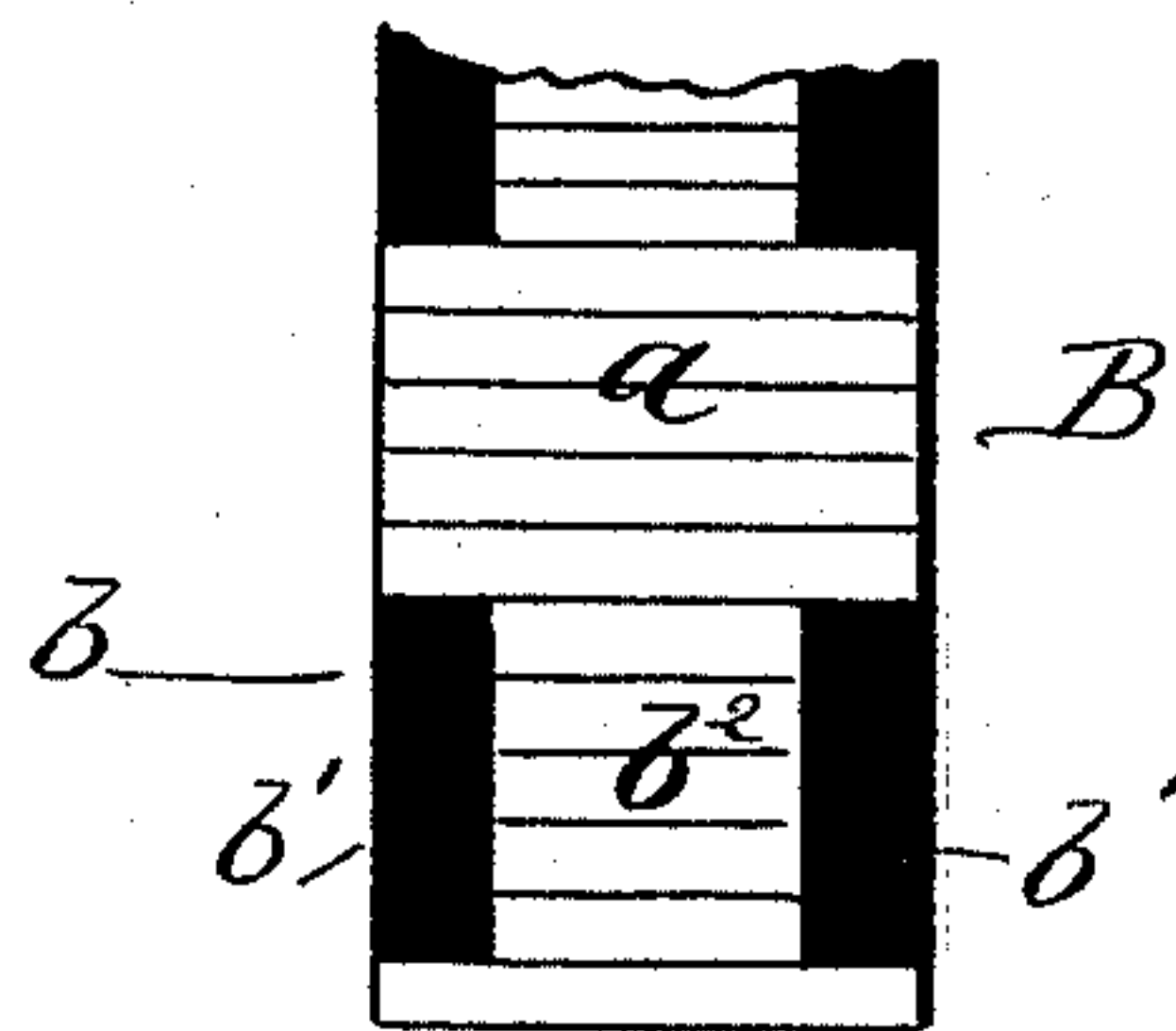


Fig. 1.

Fig. 2.



Witness

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# UNITED STATES PATENT OFFICE.

SUSAN E. WARD, OF PHELPS, NEW YORK.

## THERMOMETER-SCALE.

SPECIFICATION forming part of Letters Patent No. 483,662, dated October 4, 1892.

Application filed January 21, 1892. Serial No. 418,745. (No model.)

*To all whom it may concern:*

Be it known that I, SUSAN E. WARD, of Phelps, in the county of Ontario and State of New York, have invented a certain new and useful Improvement in Thermometer-Scales; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the drawings accompanying this application.

This invention is similar in general arrangement to that patented by John D. Ward, dated August 20, 1889, No. 409,379, the scale being made up in alternate blocks of contrasting colors, each block indicating a given number of degrees and the figures being placed at the sides, whereby the temperature may be read at a distance. In said patented invention the series of alternate blocks are so placed that the tube rests over the black surface and a black surface comes up clear to the side of the tube. Consequently the column in the tube is more or less obscured, and in looking at it at an angle on one side the fine degree-lines in the black surface cannot be readily distinguished at a distance.

My invention consists of a scale composed of alternate blocks of contrasting colors, the dark blocks consisting of side sections of the dark color and a center section of the light color, the tube resting over said center section and the center section extending outward beyond the tube on both sides.

In the drawings, Figure 1 is a front elevation of a thermometer, showing my invention. Fig. 2 is an enlarged elevation of a portion of the scale.

A indicates a plate forming the case.

B is the scale, and C the tube. The scale B is made up of alternate blocks *a b* of contrasting colors, each of which represents a given number of degrees—say ten—and is lined in the usual way to indicate subdivisions. Each of the light-colored blocks *a* has the lines extending across the whole diameter of the scale and presents a uniformly light-colored surface. Each of the dark-colored blocks *b* has dark-border sections *b'* *b'* of deep color at the sides and a center light-colored section *b<sup>2</sup>* between them corresponding

with the light-colored sections *a a*, and the lines correspond so that they extend from top to bottom, as shown in Fig. 1.

By the arrangement above described the whole longitudinal center of the scale from top to bottom is light colored with continuous lining, over which rests the tube, which thus has a light background. This white center extends laterally some distance each side of the tube, so that the lining can be readily seen on each side. The white background enables the column to be more readily seen and renders the lines visible through the tube. At the same time the black side sections are sufficient to distinguish the blocks. Another advantage consists in extending the white surfaces laterally beyond the tube, so that the lining can be seen on each side. By this means a person standing at one side at an angle, say, of forty-five degrees can see the clear lining independent of the tube, which he could not do if the black surface were carried up on either side to the tube.

Having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A thermometer-scale composed of alternate series of blocks, one series having degree-lines extending across the whole scale, the other series having degree-lines extending only partially across, occupying the central portion and resting between sections at the sides of a different shade or color from the rest of the scale, as specified.

2. A thermometer-scale whose degree-lines are arranged in blocks, the lines of each alternate block extending across the scale and the lines of each intermediate block extending only partially across, the lines forming a continuous scale from bottom to top, as described.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

SUSAN E. WARD.

Witnesses:

JOHN D. WARD,  
MARY E. ATKINS.