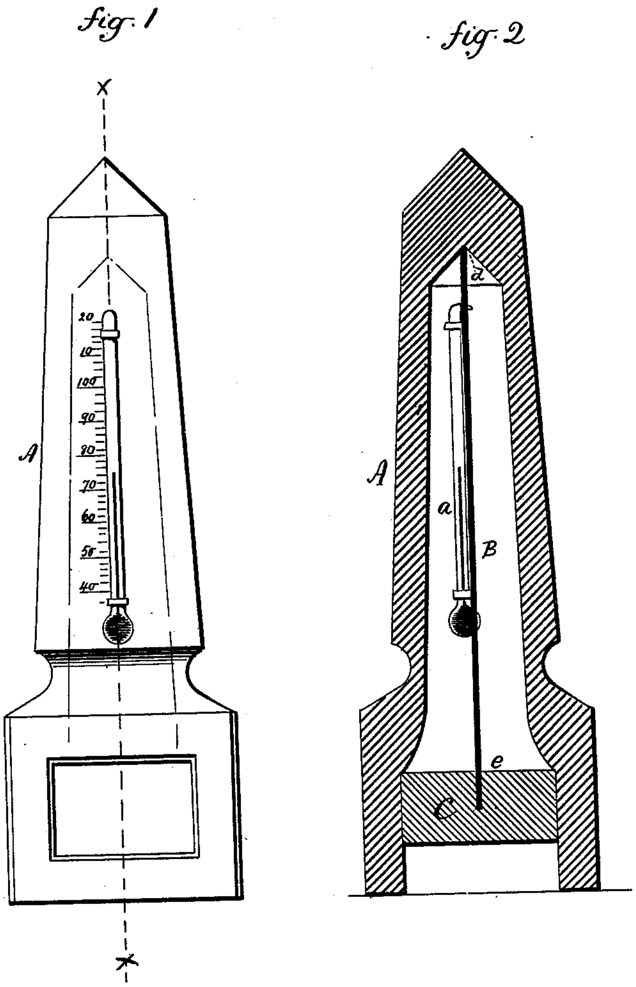
E. C. CLARK.
Thermometer.

No. 208,514. Patented Oct. 1. 1878.



Witnesses.
J. H. Shumway.
[signature]

Edwd. C. Clark.
Inventor
By atty.
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UNITED STATES PATENT OFFICE.

EDWARD C. CLARK, OF NEW LEBANON, NEW YORK.

IMPROVEMENT IN THERMOMETERS.

Specification forming part of Letters Patent No. **208,514**, dated October 1, 1878; application filed June 12, 1878.

To all whom it may concern:

Be it known that I, EDWARD C. CLARK, of New Lebanon, in the county of Columbia and State of New York, have invented a new Improvement in Thermometers; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, which said drawings constitute part of this specification, and represent, in—

Figure 1, a front view; Fig. 2, a vertical section on line *x x*.

This invention relates to an improvement in that class of thermometers in which the support is made from glass, and usually in the form of a monument.

As usually constructed, a recess or panel is made on one of the faces, and a graduated plate and tube are secured in such recess. As this security must depend upon cement of some character, it is very difficult to so secure the plate that it will not be easily detached—a serious objection to this style of thermometer.

The object of this invention is to secure the plate and tube so that they cannot be accidentally removed or liable to injury; and it consists in the construction as hereinafter described, and more particularly recited in the claim.

The support A is made from glass, and of any desirable style or pattern, usually in monumental form, as seen in Fig. 1. This is cast hollow, as seen in Fig. 2, from the bottom to near the top, and of sufficient width to receive the metal plate B, and support the bulb and tube *a*. This plate is introduced through the bottom, and shaped to take a firm position in the cavity at the top, as at *d*. This is best done by making the upper end of the cavity of pyramidal or conical shape, so as to form a central point, *d*, and then cutting the end of the plate so as to set into that point. At the lower end of the cavity a block, C, is introduced, having a slit, *e*, in its upper surface, to set onto the lower end of the plate B, which locates and secures the lower end of the plate, and the block C is secured in the lower end of the cavity by cement or otherwise.

By this construction it is impossible to accidentally disturb the plate, and the bulb and tube are protected from any accident to which the usually exposed tubes are liable.

I claim—

The combination of the hollow glass-support, the internal thermometer plate and tube, the cavity shaped at the upper end so as to locate and hold the plate at that end, and a block at the lower end of the cavity, slotted to hold the lower end of the plate, and secured in the support, substantially as described.

EDWARD C. CLARK.

Witnesses:
W. F. HEMENWAY,
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