A. I. GOODRICH
Clock.

No. 199,198. Patented Jan. 15, 1878.

fig. 1

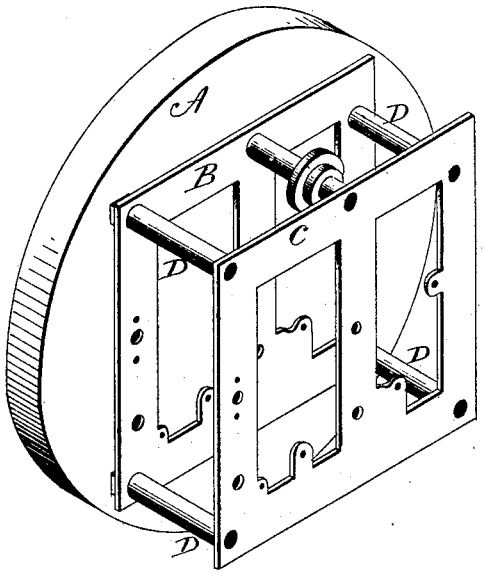
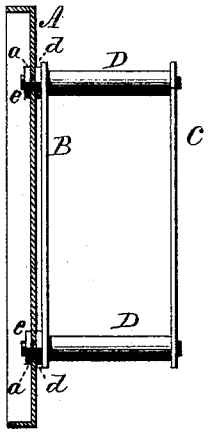


fig. 2



Witnesses.
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UNITED STATES PATENT OFFICE.

AUGUSTUS I. GOODRICH, OF WATERBURY, CONNECTICUT, ASSIGNOR TO WATERBURY CLOCK COMPANY, OF SAME PLACE.

IMPROVEMENT IN CLOCKS.

Specification forming part of Letters Patent No. **199,198**, dated January 15, 1878; application filed December 19, 1877.

To all whom it may concern:

Be it known that I, AUGUSTUS I. GOODRICH, of Waterbury, in the county of New Haven and State of Connecticut, have invented a new Improvement in Clocks; 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, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a perspective view; Fig. 2, vertical section through the pillars.

This invention relates to the manner of securing clock-movements to the case, with special reference to metallic cases.

Heretofore the movement has been secured to the back of the case by hooks, screws, or other device passing through the back, and taking hold of some part of the case.

The object of this invention is to simplify the method of attachment and make it a part of the movement itself; and it consists in extending the pillars of the movement to the rear, and so as to pass through the back, and with a nut or equivalent applied to the thus exposed end of the pillars, as more fully hereinafter described.

A represents a metallic back, such as is usually employed in metallic cases; B, the rear, and C the front, plate of the clock-movement; D, the pillars which support the two plates in their proper relative position to each other. The pillars are extended through the rear plate, and in the back are perforations *a*, corresponding to the said extensions, and through which they pass, as seen in Fig. 2, with a collar or shoulder, *d*, between the rear plate and the back, so that the rear plate will not lie in too close proximity to the back. Preferably the extensions of the pillars are screw-threaded, and onto the ends, outside the back, nuts *e* are applied, which securely clamp the movement to the back.

Instead of nuts, other well-known equivalents may be applied to the ends of the pillars, and accomplish the same result, the essential feature of this invention being the extension of the pillars through the back as a means of securing the movement to the back.

I claim—

In a clock-movement, the pillars extended through the rear plate and through the back, with a shoulder or support between the rear plate of the movement and the back, and a securing device, substantially such as described, applied to the outer ends of the said extended pillars, substantially as and for the purpose described.

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