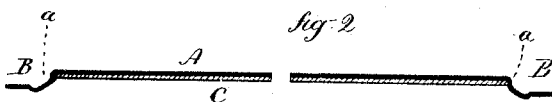
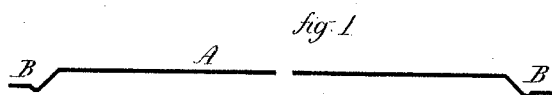


J. de LAFORGUE.  
Clock-Dials.

No. 146,236.

Patented Jan. 6, 1874.



Joseph de Laforgue  
Inventor

By Atty.

Witnesses.

# UNITED STATES PATENT OFFICE.

JOSEPH DE LAFORGUE, OF BRISTOL, ASSIGNOR TO THE E. N. WELCH  
MANUFACTURING COMPANY, OF FORESTVILLE, CONNECTICUT.

## IMPROVEMENT IN CLOCK-DIALS.

Specification forming part of Letters Patent No. **146,236**, dated January 6, 1874; application filed  
July 9, 1873.

*To all whom it may concern:*

Be it known that I, JOSEPH DE LAFORGUE, of Bristol, in the county of Hartford and State of Connecticut, have invented a new Improvement in Clock-Dials; 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 transverse section of the plate before the dial is attached; and in Fig. 2, the same with the dial secured in position.

This invention relates to an improvement in the construction of the dial and its frame for clocks.

These have usually been formed in several parts secured together to make a complete article.

The object of this invention is to make the frame and base for the dial complete in one and the same piece, and secure the dial therein without the addition of other parts; and the invention consists in shaping from a disk of metal the base and rim, the base being the diameter of the dial, then placing the dial upon the said base, and securing it therein by spinning or working the rim in the immediate vicinity of the dial inward over the dial, as more fully hereinafter described.

From a disk of metal of a diameter corresponding to the size of the dial and rim I form the base A and the rim B by means of dies, or spinning completely the rim and base in one piece and single thickness of metal. I then place the dial C upon the said base, and back of the rim, as at *a*, spin or work the metal inward over the edge of the dial, so as to secure it firmly upon the base. Thus I produce a dial and rim at very much less cost than the usual construction, and very much better, in that it is simpler.

This dial and its rim form an article of manufacture independent of the other parts of the clock, and is adapted to use upon most classes of clocks. The general form of the rim may be that of the common construction, and made more or less ornamental, as the case may be.

I claim as my invention—

As an article of manufacture, the herein-described clock-dial, consisting of the base A, with its rim B, formed from a single thickness of metal, the dial or front C secured upon the base A by spinning or working the rim in the immediate vicinity of the dial down upon the dial, substantially as set forth.

J. DE LAFORGUE.

Witnesses:

A. EBERS,  
WM. C. RICHARDS.