

(No Model.)

W. B. LEARNED.
WATCH DIAL.

No. 511,852.

Patented Jan. 2, 1894.

FIG. 1.

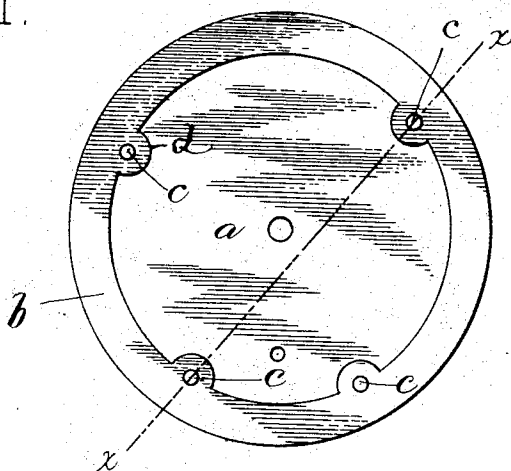


FIG. 2.

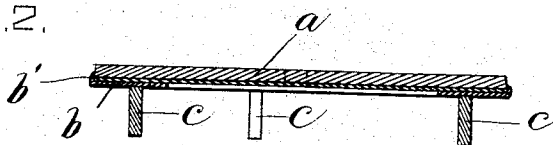
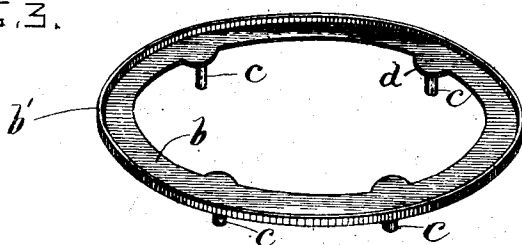


FIG. 3.



WITNESSES:

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INVENTOR:

Wm. B. Learned.
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UNITED STATES PATENT OFFICE.

WILLIAM B. LEARNED, OF BOSTON, MASSACHUSETTS, ASSIGNOR OF ONE-HALF TO THE E. HOWARD WATCH AND CLOCK COMPANY, OF SAME PLACE.

WATCH-DIAL.

SPECIFICATION forming part of Letters Patent No. 511,852, dated January 2, 1894.

Application filed August 10, 1889. Serial No. 320,345. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM B. LEARNED, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Watch-Dials, of which the following is a specification

This invention has for its object the providing of improved means for attaching to the backs of watch dials the short metal studs or feet, which project from the back of the dial, and enter sockets formed to receive them in the movement plate on which the dial bears, said feet by their engagement with said sockets holding the dial firmly in place and preventing it from turning or moving edgewise. Heretofore the feet have been soldered directly to the back of the dial. This method of attachment is open to the following objections, viz.: First, the direct contact of the feet with the back of the dial and the solder connections often cause slight inequalities or projections to appear on the enameled face of the dial, said projections being directly over the feet, and detracting from the smooth appearance, which the face of the dial should possess. Secondly the feet are not adjustable on the dial, but are rigidly and non-adjustably secured thereto, so that if a dial having feet attached to it in the positions required for hunting case watches cannot be used for open face watches, because the pins require a different location with reference to the characters on the face in open case dials, from that required in hunting case dials.

My invention has for its object the providing of the dial with feet which are adjustably secured to the dial by means which will prevent the direct contact of the feet with the back of the dial and the formation of protuberances on the enameled face thereof and permit the feet to be adjusted, so that the same dial can be used with either an open or a hunting case.

To these ends my invention consists in a ring or bezel of thin sheet metal, having the feet attached to and projecting from one of its sides, said ring being adapted for attachment to the back and margin of the dial, as I will now proceed to describe.

Of the accompanying drawings forming a

part of this specification, Figure 1 represents a back view of a dial having my improvement. Fig. 2 represents a section on line $x x$ Fig. 1. Fig. 3 represents a perspective view of the foot holding ring or bezel.

The same letters of reference indicate the same parts in all of the figures.

In the drawings: a represents the dial which may be of the usual construction excepting that there are no feet soldered to its back.

b represents a ring of thin sheet metal having a narrow flange b' at one edge, the ring being of such diameter that when laid upon the back of the dial, its flange will project over the edge of the dial. $c, c, c, c,$ represent the feet which are soldered to the projections d on the inner side of the said ring and project in the opposite direction from the flange b' . The ring is secured to the back of the dial, first by cement, and then by compressing the flange against the edge of the dial by suitable rubbing pressure, a firmer engagement being thus effected. It will be seen that the feet are securely connected with the dial without direct contact therewith, and without contact of solder with the dial. It will also be seen that the feet can be applied to the dial after the latter is finished and in any desired position with relation to the characters on the dial without liability of injury to or defacement of the enameled face of the dial.

I claim—

1. A watch dial having a bezel of sheet metal adapted to be attached thereto and provided with a flange embracing the periphery of the dial, and feet secured to one side of said bezel and projecting therefrom, said parts being combined, substantially as described.

2. A watch dial having a bezel with a compressible flange adapted to embrace the periphery of the said dial, and feet secured to projections on the inner side of said bezel, said parts being combined substantially as described.

3. A watch dial having a flat metallic ring permanently secured to its back adjacent to its margin, said ring having short metal studs or feet projecting from its side opposite the dial, substantially as described.

4. A watch dial having a flat metallic ring

permanently secured to its back adjacent to its margin, said ring having projections *d* from its inner edge, and an outer flange *b'* embracing the edge of the dial, and short metal studs or feet *c* extending from the side of the projections *d* opposite the dial, substantially as described.

In testimony whereof I have signed my

name to this specification, in the presence of two subscribing witnesses, this 2d day of August, A. D. 1889.

WILLIAM B. LEARNED.

Witnesses:

ARTHUR W. CROSSLEY,
K. E. BROWN.