

W. A. WALES.
Blank for Watch and Clock Dials.

No. 216,917.

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Attest,
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UNITED STATES PATENT OFFICE.

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IMPROVEMENT IN BLANKS FOR WATCH AND CLOCK DIALS.

Specification forming part of Letters Patent No. **216,917**, dated June 24, 1879; application filed
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To all whom it may concern:

Be it known that I, WILLIAM A. WALES, of Auburndale, in the county of Middlesex and State of Massachusetts, have invented a new and useful Improvement in Blanks for Watch and Clock Dials; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, forming a part of this specification, in which the figure represents a vertical central section of a blank embodying my invention, which I will first proceed to describe, and subsequently to point out in the claims its novel characteristics.

The object of this invention is to produce a blank from a single piece of material that includes means for attaching the same to the movement and for supporting the dial proper and protecting the edges thereof, and whereby a firm and durable blank having the described features may be produced in a single operation.

In the drawing, *a* represents the depressed face or seat upon which the dial is arranged, the surrounding raised edge or bead *b* serving to maintain the dial in proper position and form a guard for the protection of its edge. The central perforation, *c*, is also formed so that a vertical flange surrounds the same to serve a like purpose. *d* represents a circum-

ferential flange depending from the opposite side of the blank, and is intended to embrace the edge of the watch-plate and be firmly held thereto by its natural elasticity or in any other suitable manner.

This blank is produced from a sheet of copper or other analogous substance by means of a die capable of cutting the same in circular shape, compressing it to the form shown, and punching the central perforation in a single operation, which will be readily understood by sheet-metal workers.

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

1. A blank for watch or clock dials made in one piece, and having the bead *b* at its periphery and the flange around its central perforation, *c*, for protecting both the inner and outer edges of the dial, substantially as described and shown.

2. The blank for watch or clock dials described, having face *a*, bead *b*, flanged perforation *c*, and circumferential flange *d*, made in one piece of sheet metal, constructed and arranged substantially as set forth and shown.

WILLIAM A. WALES.

Witnesses:

GEO. H. BOURNE,
JOHN ROSE.