(No Model.)

E. H. RYON.

TOOL FOR ENAMELING WATCH DIALS.

No. 428,417. Patented May 20, 1890.

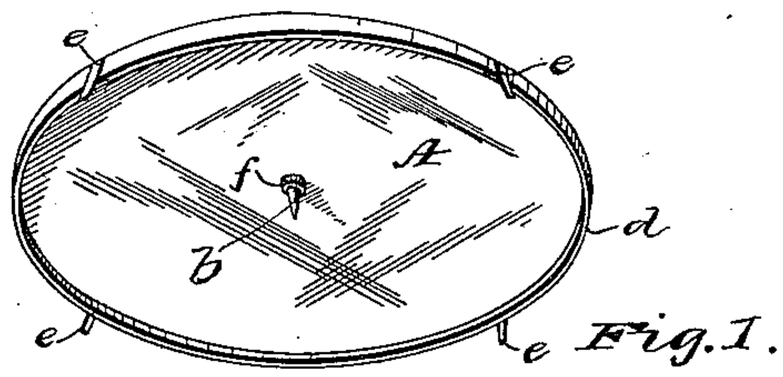

Fig. 1.

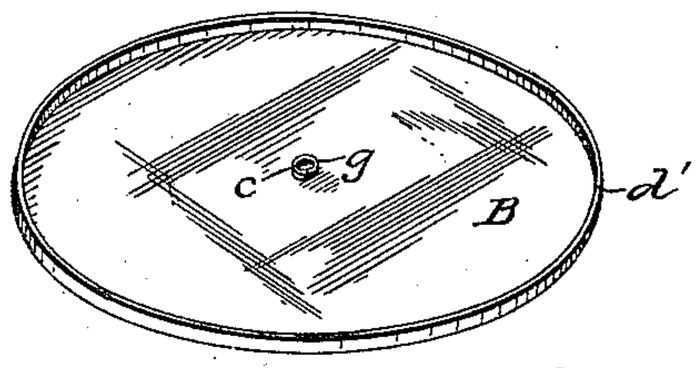

Fig. 2.

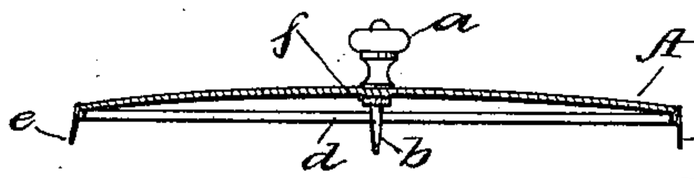

Fig. 3.

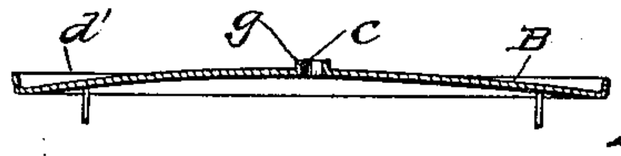

Fig. 4.

WITNESSES:

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TOOL FOR ENAMELING WATCH-DIALS.

SPECIFICATION forming part of Letters Patent No. 428,417, dated May 20, 1890.

Application filed March 10, 1890. Serial No. 343,228. (No model.)

To all whom it may concern:

Be it known that I, EPPA H. RYON, a citizen of the United States, residing at Canton, in the county of Stark and State of Ohio, have invented certain new and useful Improvements in Tools for Enameling Watch-Dials; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters of reference marked thereon, in which—

Figure 1 is a perspective view of the leveling-disk. Fig. 2 is a perspective view of a watch-dial plate. Fig. 3 is a sectional view of the leveling-disk, showing the handle or knob attached thereto. Fig. 4 is a sectional view of a watch-dial plate.

The present invention has relation to tools for enameling watch-dial plates; and it consists in the novel arrangement hereinafter described and claimed.

In the accompanying drawings, A represents the leveling-disk, which is substantially of the form shown in the drawings, and, as shown, is provided with the handle or knob *a* and the pin *b*. The pin *b* is so adjusted that it will enter the aperture *c* in the watch-dial plate B when the leveling-disk A is placed on the plate B. The leveling-disk A is provided with the annular flange *d*, which is for the purpose of striking or resting upon the edge of the flange *d'* upon the dial-plate B when the disk A and the plate B are placed together.

In use a sufficient amount of enamel-powder is placed upon the dial-plate B, at which time the leveling-disk A is placed over the plate B, the edges of the flanges *d* and *d'* coming together and the pin *b* entered in the aperture *c*, at which time the leveling-disk A is rotated back and forth until the enameling-powder is properly distributed and leveled upon the dial-plate B, the surplus enameling-powder being sifted out between the flanges *d* and *d'*. It will be understood that, if desired, the dial-plate B may be rotated and the same object accomplished, or leveling-disk A and the dial-plate B both rotated at the same time in opposite directions.

For the purpose of preventing any accidental displacement of the leveling-disk A, and at the same time providing guides, the arms or lugs *e* are provided, which are attached in any convenient and well-known manner to the periphery of the leveling-disk A. These arms or lugs *e* are inclined outward for the purpose of passing over the flange *d'*. It will be understood that the size of the leveling-disk A is to correspond with the size of the dial-plates, and that different-sized leveling-disks are used upon different-sized dial-plates. It will also be understood that the leveling-plate A is to correspond in form in cross-section to the form of the dial-plate in cross-section.

For the purpose of preventing the leveling-disk from springing, the shoulder *f* is provided, which abuts against the flange *g*. The shoulder *f* may be formed integral with the leveling-plate A; or, if desired, this shoulder *f* may be formed integral with the pin *b*.

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

1. In a tool for enameling watch-dial plates, the disk A, provided with the pin *b* and the annular flange *d*, substantially as and for the purpose specified.

2. In a tool for enameling watch-dial plates, the leveling-disk A, provided with the handle or knob *a*, the pin *b*, and the annular flange *d*, substantially as and for the purpose specified.

3. In a tool for enameling watch-dial plates, the leveling-disk A, provided with the annular flange *d*, the arms or lugs *e*, and the shoulder *f*, substantially as and for the purpose specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

EPPA H. RYON.

Witnesses:
F. W. BOND,
E. A. C. SMITH.