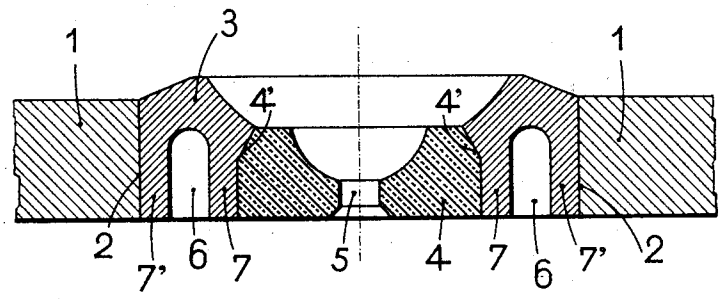
Dec. 26, 1922. 1,440,059

H. COLOMB.
SETTING FOR DRILLED JEWEL BEARINGS.
FILED SEPT. 28, 1921.

FIG. 1.



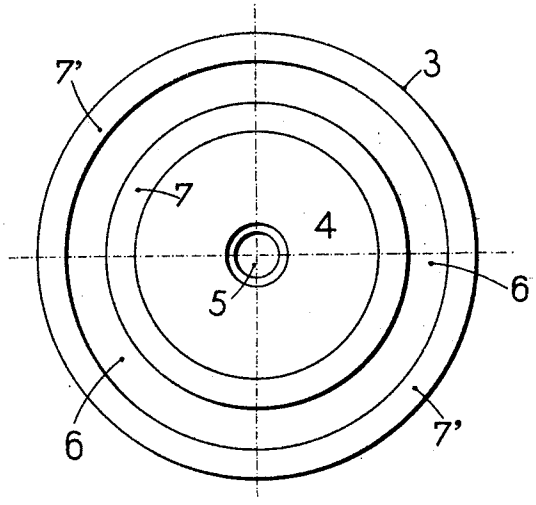




FIG. 2.

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ATTY.

Patented Dec. 26, 1922. 1,440,059

# UNITED STATES PATENT OFFICE.

HENRI COLOMB, OF TAVANNES, SWITZERLAND.

## SETTING FOR DRILLED JEWEL BEARINGS.

Application filed September 28, 1921. Serial No. 503,995.

*To all whom it may concern:*

Be it known that I, HENRI COLOMB, a citizen of the Republic of Switzerland, residing at Tavannes, Switzerland, have invented certain new and useful Improvements in Settings for Drilled Jewel Bearings, of which the following is a specification.

This invention relates to improvements in settings for drilled jewel bearings for use in time-keeping mechanism, and has for its main object the provision of a setting so formed as to prevent undue pressure upon the jewel and thereby to lessen the danger of breakage of the jewel, when the setting is forced into the pillar-plate, as is a frequent occurrence in settings now commonly in use, particularly when such stones are made of garnet.

A further object of the invention is to provide a setting whereby the jewel may be readily inserted therein, and the setting and jewel both held firmly in their proper position.

In the drawings accompanying and forming part of this specification, which show a preferred embodiment of the invention,

Fig. 1 is a transverse sectional view showing the jewel setting in position, and

Fig. 2 is a view looking upward at Figure 1.

Similar characters of reference indicate corresponding parts throughout the figures of the drawings.

Referring to these drawings, 1 represents a pillar-plate having a circular opening 2 therein for the reception of the jewel setting 3. This setting 3 is formed with an annular groove 6 preferably of U-shaped section approximately concentric with the jewel, which results in the formation of two lips or walls, 7, 7′, and which walls are of a resilient nature, so that upon the insertion of the jewel 4 into the setting, the pressure exerted on the jewel is only that of the inner wall 7, thereby lessening the danger of cracking or splitting such jewel.

The jewel 4 has a hole 5 drilled at the center thereof.

In ordinary practice, the settings are driven into the pillar-plates by force exerted upon them, and in the usual construction the force exerted by the plate upon the setting compresses it unevenly and to such an extent that great pressure is exerted upon the jewel, with the consequent splitting thereof.

In the present instance, however, it will be noted that the jewel is first inserted into the setting and engaged only by the wall 7 thereof; and when the setting is forced into the pillar plate the pressure of that operation is exerted only on the wall or lip 7′, whereby the setting and the jewel are firmly held in position, but the force holding the setting in place is not transmitted to the jewel.

The setting 3 may be provided with a bevel 4′ and the jewel 4 with a corresponding bevel for facilitating the insertion and alinement of the jewel and to provide a secure seat for the jewel.

It will, of course, be understood that various changes and modifications may be made to the details of construction without departing from the spirit or scope of the invention.

Having thus described my invention, what I claim is:

1. A jewel setting having a central opening and provided with an annular groove concentric of the opening and forming resilient inner and outer wall portions which respectively facilitate the mounting of the jewel and the setting.

2. A jewel setting as claimed in claim 1 wherein the groove is of a depth equivalent to the width of the part of the central opening which receives the jewel.

3. A jewel setting including resilient means for firmly holding the jewel within the interior of the setting and resilient means for facilitating the mounting and fixing of the setting.

4. In a time keeping device the combination with a plate having annular openings therein, of a disc like setting insertable in the opening of the plate and provided with a central annular jewel receiving opening and further provided in one side with an annular groove which forms resilient wall portions for respectively facilitating the mounting of the jewel in the opening and the mounting of the body of the setting in the opening of the plate.

5. An arrangement as claimed in claim 4 wherein the inner wall is formed with a bevel at one end portion for ensuring of the secure seating of the jewel in the annular opening.

In testimony whereof I hereunto affix my signature.

HENRI COLOMB.