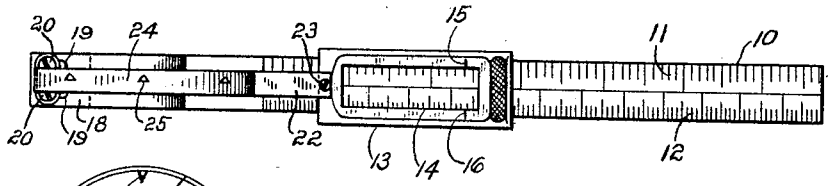
M. GORDON.

WATCH CRYSTAL GAUGE.

APPLICATION FILED SEPT. 9, 1920.

1,404,601. Patented Jan. 24, 1922.

Fig. 1



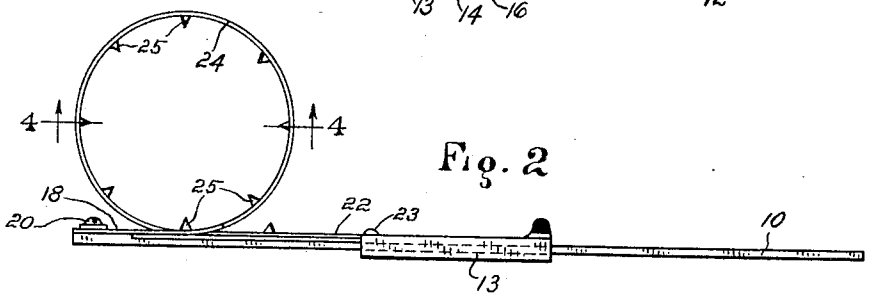


Fig. 2

Fig. 3

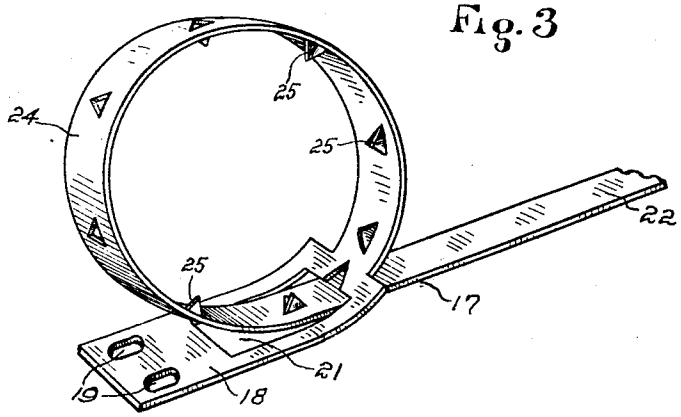
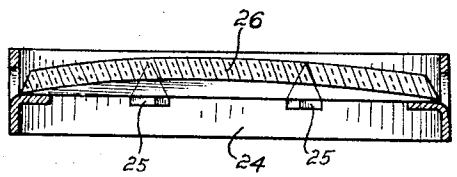


Fig. 4



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WATCH-CRYSTAL GAUGE.

1,404,601. Specification of Letters Patent. Patented Jan. 24, 1922.

Application filed September 9, 1920. Serial No. 409,125.

To all whom it may concern:

Be it known that I, MAX GORDON, a citizen of the United States, and resident of Waterbury, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Watch-Crystal Gauges, of which the following is a specification.

The present invention has for its object to provide an accurate gauge for watch crystals which shall be extremely simple in construction and cheap to manufacture, and which shall also be of practical design for its purpose and thus capable of easy and ready manipulation in the performance of the work for which intended.

With the above and other objects in view, the invention comprises the construction and arrangement of parts as now to be fully described and hereinafter specifically claimed.

In the accompanying drawing forming a part of this specification,

Fig. 1 is a top plan view of the gauge of the invention;

Fig. 2 is an edge view thereof;

Fig. 3 is a perspective view showing a portion of the flexible band of the gauge; and

Fig. 4 is a sectional view on line 4—4 in Fig. 2, looking in the direction of the arrows, but showing a section of a watch crystal in position in the hoop of the flexible band.

In the accompanying drawing, 10 denotes a scale of any suitable material, such as wood or steel, and 11 and 12 denote graduations thereon. The graduations may correspond with any of the known systems of measurement used in gauging watch crystals. A thumb slide 13 arranged on the scale, is provided with a window 14 which is for the purpose of allowing the graduations to be visible. 15 and 16 denote hair lines on the thumb slide window which are adapted to register with the graduations in the operation of gauging a watch crystal. For absolute accuracy in the measurements the well known vernier principle can be applied to the thumb slide to cooperate with the graduations on the scale.

A flexible band 17 has an enlarged end 18 provided with elongated slots 19 by means of which said band is adjustably attached to the scale. As shown more clearly in Fig. 1, screws 20 pass through the slots to hold the band to the scale. In the enlarged end of the flexible band is an opening 21, see Fig. 3, of sufficient size to freely receive the opposite end, denoted by 22, of the band, which, after being passed through opening 21, is attached to one end of the thumb slide as indicated at 23. This arrangement, it will be obvious, forms a hoop 24 which is capable of being expanded and contracted by movement of the thumb slide on the scale. Struck from the hoop portion of the flexible band is a series of lugs 25 to serve as stops for the edges of the watch crystal, denoted by 26 in Fig. 4, to be gauged.

The manner in which the gauge is used will be apparent. The thumb slide is moved toward the end of the scale to which the enlarged end of the flexible band is attached until the hoop is sufficiently large to receive the watch crystal. The crystal is inserted and made to rest against all of the alining stops. The thumb slide is then moved toward the opposite end of the scale until the hoop engages the entire perimeter of the watch crystal. The hair line registers with the graduation on the scale which indicates the exact measurement of the watch crystal.

Having fully described the invention, what I claim is:

1. A gauge for watch crystals comprising a scale, a thumb slide thereon, and a flexible band having its opposite ends attached to said scale and thumb slide, respectively, said flexible band profiled with an opening through which one end of said band passes to form a hoop, said opening being intermediate the ends of said band and said hoop being expandible and contractible by movement of said thumb slide on said scale.

2. A gauge for watch crystals comprising a scale, a flexible band provided with an enlarged portion adjustably secured to said scale, said enlarged portion having an opening, and a thumb slide on said scale and provided with a hair line adapted to register with graduations on said scale, said opening being located intermediate the ends of said flexible band, and said flexible band having an end inserted through said opening and secured to said thumb slide.

3. A gauge for watch crystals comprising a scale, a flexible band provided with an enlarged end adjustably secured to said scale, said enlarged end provided with an opening, and a thumb slide on said scale and provided with a hair line adapted to register

with graduations on said scale, said flexible band having an end inserted through said opening in said enlarged end and secured to said thumb slide, whereby an expandible and contractible hoop is provided, said hoop having a series of stops as described and for the purpose specified.

4. A gauge for watch crystals comprising a scale, a thumb slide thereon and having a window with hair line adapted to register with graduations on said scale, and a flexible band having its opposite ends attached to said scale and thumb slide and having an opening intermediate said ends and spaced therefrom, one end of said band passing through said opening to form an expandible and contractible hoop whose inner circumference is continuous.

5. A gauge as specified in claim 5, wherein that end of the flexible band which is attached to the scale is adjustable upon said scale.

Signed at Bridgeport, in the county of Fairfield and State of Connecticut, this 7th day of September, A. D., 1920.

MAX GORDON.

Witnesses:
C. M. NEWMAN,
LILLIAN N. ALLING.