

L. K. MALVERN.
JEWELER'S GAGE.
APPLICATION FILED FEB. 23, 1911.

1,020,832.

Patented Mar. 19, 1912.

Fig. 1.

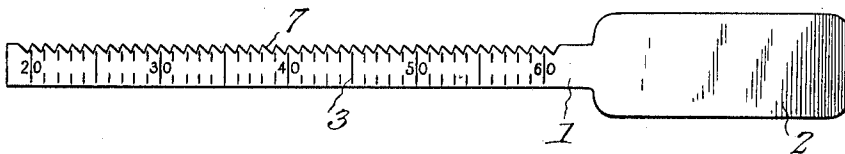


Fig. 2.

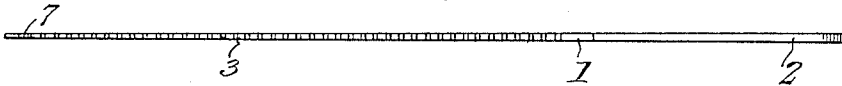
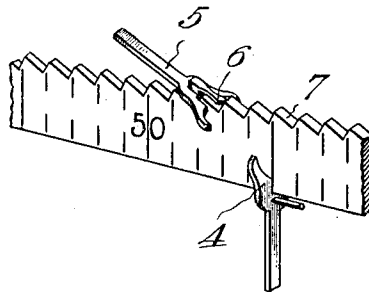


Fig. 3.



WITNESSES:

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LEWIS K. MALVERN, OF ELGIN, ILLINOIS, ASSIGNOR TO ELGIN NATIONAL WATCH COMPANY, OF ELGIN, ILLINOIS, A CORPORATION OF ILLINOIS.

JEWELER'S GAGE.

1,020,832.

Specification of Letters Patent.

Patented Mar. 19, 1912.

Application filed February 23, 1911. Serial No. 610,379.

To all whom it may concern:

Be it known that I, LEWIS K. MALVERN, a citizen of the United States, residing at Elgin, in the county of Kane, State of Illinois, have invented certain new and useful Improvements in Jewelers' Gages, of which the following is a description, reference being had to the accompanying drawing and to the letters and figures of reference marked thereon.

My invention relates to new and useful improvements in gages, and more especially to gages for measuring a roller fork to determine the size of the jewel pin to cooperate therewith.

An object of the invention is to provide a gage whereby either a single roller fork or a double roller fork may be readily measured, and the size of the jewel pin to cooperate therewith quickly determined.

In the drawings,—Figure 1 is a face view of the gage having my improvements applied thereto; Fig. 2 is an edge view of the same; and Fig. 3 is a perspective view showing a single fork and a double fork applied to the gage.

In carrying out my invention, I have formed a gage which consists of a bar 1 having an enlarged end 2, which serves as a handle or supporting means for said bar. The bar 1, as clearly shown in Fig. 2, is wedge-shaped or tapered toward its outer end.

On the side face of the gage, as shown in Figs. 1 and 2, are graduated marks 3, which indicate the size of the jewel pin for the roller fork. In measuring the single roller fork, the fork 4 (see Fig. 3) is slid along the lower edge of the wedge-shaped bar 1 until it fits snugly against each side of the bar. The graduation of the bar at this particular point is read, which will give the exact size of jewel pin necessary to properly cooperate with the fork.

The double fork 5 is provided with a central finger or tongue 6, which extends between the forks and would prevent the fork from engaging the lower smooth edge of the gage bar. I have, therefore, formed the upper edge of the gage bar with a series of inclined surfaces, which meet to form pro-

jections 7. The sides of the projections are preferably flat, although it is obvious from certain aspects of the invention, these projecting parts may be differently shaped from that shown in the drawings.

The double roller fork is placed first on one projection and then another, which projections vary in size, owing to the tapered or wedge shape of the gage bar, until a projection is found which fits between the outer forks. The central finger or tongue will extend along the inclined face of the projection, and this inclined part or cut-away portion in the upper edge of the bar allows the projection to enter between the outer forks. When the proper projection is found which fits between the forks, the gage at this projection is read, and thereby the exact size of jewel pin necessary to cooperate with the double fork is determined.

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

1. A gage for jewel pins comprising a flat bar, the sides of which gradually approach each other, one of the edges of the bar having equally spaced notches thereon to receive the central tongue of a double roller fork, said bar having equally spaced graduations on one face thereof whereby the proper size jewel pin for the fork may be determined.

2. A gage for jewel pins comprising a flat bar, the sides of which gradually approach each other, one of the edges of the bar being smooth and adapted to receive the prongs of a single roller fork, the other edge of said bar having equally spaced notches to receive the central tongue of a double roller fork, said bar having equally spaced graduations on one face thereof, whereby the proper size jewel pin for the double roller fork or for the single roller fork may be determined.

3. A gage for jewel pins comprising a flat bar, the sides of which gradually approach each other, one of the edges of the bar being smooth and adapted to receive the prongs of a single roller fork, the other edge of said bar having equally spaced notches to receive the central tongue of a double roller

fork, said bar having equally spaced gradu-
ations on one face thereof whereby the
proper size jewel pin for the double roller
fork or for the single roller fork may be de-
5 termined, the walls of said notches being flat
and inclined to each other so that the ad-
jacent walls of the notches will intersect.

In testimony whereof I affix my signature
in presence of two witnesses.

LEWIS K. MALVERN.

Witnesses:

HARRY E. HENDRICKSON,
GEORGE E. HUNTER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."