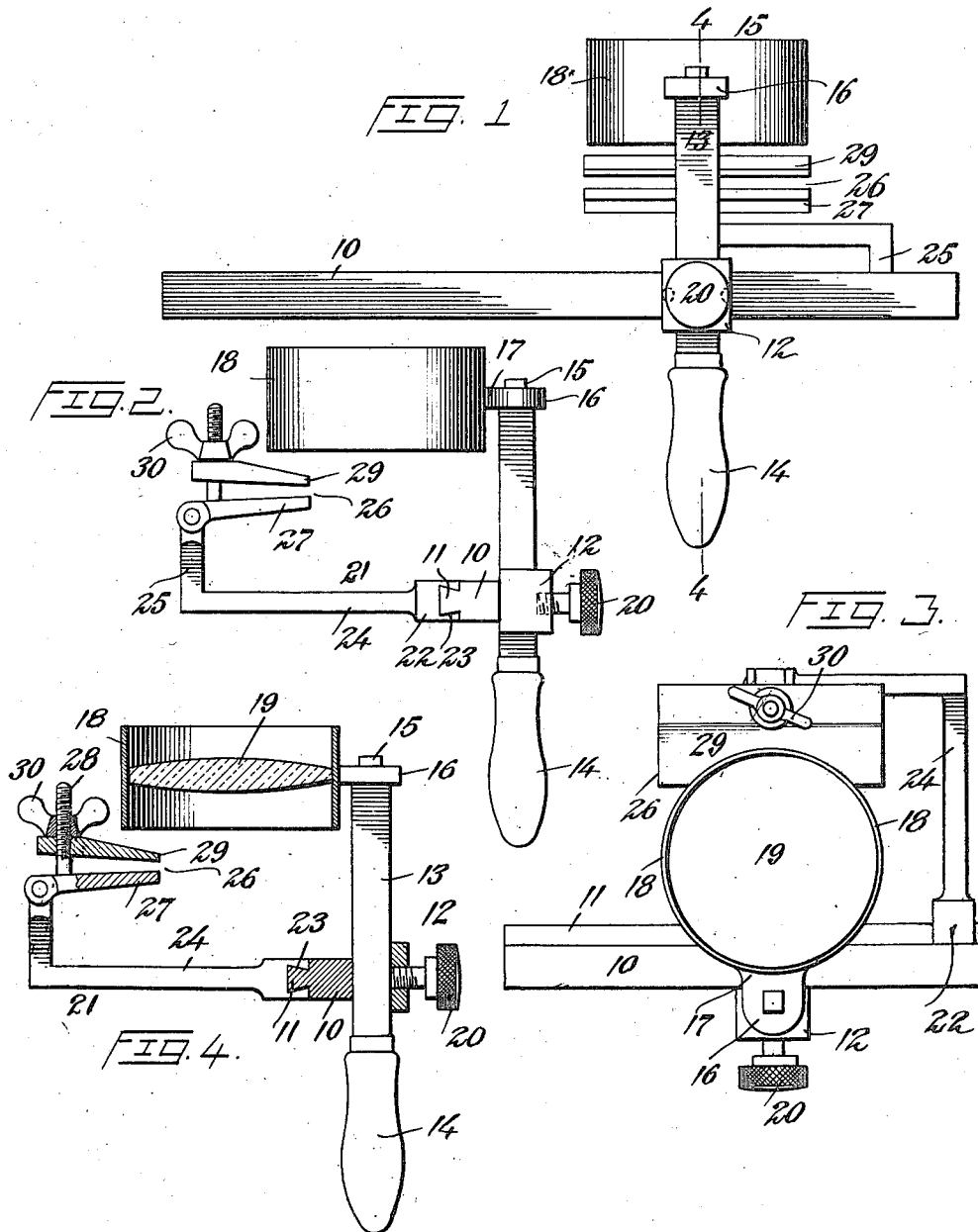


P. HARRISON.
MAGNIFYING DEVICE.
APPLICATION FILED APR. 27, 1912.

1,059,868.

Patented Apr. 22, 1913.



Witnesses

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[Signature]

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UNITED STATES PATENT OFFICE.

PHILIP HARRISON, OF NEW YORK, N. Y.

MAGNIFYING DEVICE.

1,059,868.

Specification of Letters Patent.

Patented Apr. 22, 1913.

Application filed April 27, 1912. Serial No. 693,684.

To all whom it may concern:

Be it known that I, PHILIP HARRISON, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented new and useful Improvements in Magnifying Devices, of which the following is a specification.

An object of the invention is to provide a magnifying device, particularly adaptable for use in connection with razors and jewels for detecting imperfections thereon.

The invention embodies, among other features, a supporting member particularly adapted to support a razor blade within the field of a magnifying glass, whereby, upon gazing through the glass, any discrepancies in the cutting edge of the razor blade can be readily detected, the device being also adapted for use in examining jewels for the purpose of finding imperfections thereon prior to grinding or cutting the jewels or setting the same in an artistic frame.

In the further disclosure of the invention reference is to be had to the accompanying drawings constituting a part of this specification in which similar characters of reference denote corresponding parts in all the views, and in which:

Figure 1 is a front elevation of the device; Fig. 2 is an end view; Fig. 3 is a plan view; and Fig. 4 is a vertical sectional view taken on the line 4—4 in Fig. 1.

Referring more particularly to the views, use is made of a main bar 10 provided on one side thereof with a longitudinally extending dove-tail flange 11, a bearing plate 12 being secured to the main bar 10 at a central portion thereof and having mounted to slide therein a vertically extending holder 13, terminating at the lower end in a handle 14 and provided at the upper end with a reduced portion 15, on which is mounted a collar 16 provided with a horizontally extending shank 17 connected to a circular frame 18 in which is mounted a magnifying glass 19, a thumb screw 20 being mounted to extend through the bearing plate 12 to engage the holder 13 for the purpose of securing the holder in rigid position relatively to the main bar 10.

A bracket 21 comprising a head 22 provided with a dove-tail slot 23 is mounted to slide horizontally on the main bar 10, the dove-tail flange 11 of the main bar being received in the dove-tail slot 23 of the head

22 of the bracket, a bar 24 being extended horizontally from the head 22 and then bent vertically to form an upright 25, the bar being then bent horizontally and laterally and having mounted to swing on the free end thereof a clamping member 26 comprising a stationary gripping tooth 27 having mounted to extend vertically therefrom a threaded pin 28 on which is mounted to slide a gripping tooth 29, a thumb screw 30 being threadedly mounted on the pin 28 and adapted to engage the movable gripping tooth 29 to clamp an article between the stationary gripping tooth 27 and the movable gripping tooth 29, the mentioned gripping teeth being adapted to extend toward the main bar and arranged so that when the bracket 21 is slid on the main bar 10, the article held between the gripping teeth 27 and 29 can be brought within the field of the magnifying glass 19, adjustably mounted on the main bar 10, as mentioned heretofore.

As mentioned above, my device is particularly adapted for use in connection with razors for the purpose of determining any imperfections in the cutting edges thereof and in the use of my device the razor blade is securely clamped between the gripping tooth 27 and the gripping tooth 29, after which the bracket 21 is advanced along the main bar 10 until the cutting edge of the razor blade will lie within the plane of the magnifying glass 19 and immediately beneath the same, the holder 13 being adjustable on the main bar 10 for the purpose of obtaining a proper focus of the magnifying glass so that when the operator gazes through the magnifying glass from above, the cutting edge of the razor blade will be clearly outlined beneath the magnifying glass, in an enlarged form, thus clearly disclosing any imperfections or raggedness in the cutting edge of the blade. My device is also adapted for use in examining jewels for the purpose of determining any imperfections therein and it will be readily understood that instead of clamping the jewel between the gripping tooth 27 and the gripping tooth 29, the jewel can be placed upon a suitable plate having an edge thereof securely clamped between the gripping teeth 27 and 29, it being also apparent that the clamping member 26 can be adjusted to various angles on the bracket 21, the clamping member being mounted to swing on the bracket in such

a manner that the clamping member will normally bind and remain in stationary position regardless of the angle to which the clamping member is swung.

5 It should be noted that the clamping member 26 is offset from the vertical plane of the bracket 21 in order that a portion of the bracket will not be brought within the field
10 of the magnifying glass 19 when it is desired to examine an article securely held in the clamping member 26, it being readily understood that if a portion of the bracket were disposed beneath the clamping member
15 when an article is clamped therein and the article is within the field of the magnifying glass, the magnifying portion of the bracket beneath the magnifying glass would act as a dark background beneath the article in the
20 clamping member, thus destroying the contrast of vision that is observed when the clamping member is offset as mentioned, a white background being preferably arranged
25 beneath my device when an article of a dark color is mounted in the clamping member in order that the imperfections in the edges of the article will be readily apparent to the observer.

Having thus described my invention, I claim:

30 1. In a device of the class described, the combination with a main bar, of a bearing plate thereon, a holder mounted to slide on the said bearing plate, the said holder terminating at one end in a handle and at the
35 other end in a reduced portion, a thumb screw mounted to extend through the said bearing plate and engage the said holder to retain it in rigid position relatively to the main bar, a collar mounted on the reduced
40 portion of the said holder, a shank formed with the said collar, a frame extended from

the said shank, a magnifying glass mounted in the said frame, a dove-tail flange formed longitudinally on the said main bar, a bracket mounted to slide on the said flange, 45 and a clamping member mounted on the said bracket and slidable therewith to lie within the field of view of the said magnifying glass.

2. In a device of the class described, the combination with a main bar, of a holder 50 adjustably mounted thereon, a magnifying glass mounted on the said holder, a bracket mounted to slide on the said main bar, and a clamping bar mounted on the said bracket 55 and movable therewith to lie within the field of view of the said magnifying glass.

3. In a device of the class described, the combination with a main bar, of a holder 60 adjustably mounted thereon, a magnifying glass mounted on the said holder, a bracket slidably mounted on the said main bar, and a clamping member mounted to swing on the said bracket and movable therewith to lie 65 within the field of view of the said magnifying glass.

4. In a device of the class described, the combination with a main bar, of a holder 70 adjustably mounted thereon, a magnifying glass mounted on the said holder, a bracket mounted to slide on the main bar, a clamping member mounted to swing on the said bracket and comprising a plurality of gripping teeth, and means for adjusting one of 75 the said teeth relatively to the other tooth.

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

PHILIP HARRISON.

Witnesses:

LILLIAN NAOMI HANSON,
EDWARD A. HUTCHINSON.