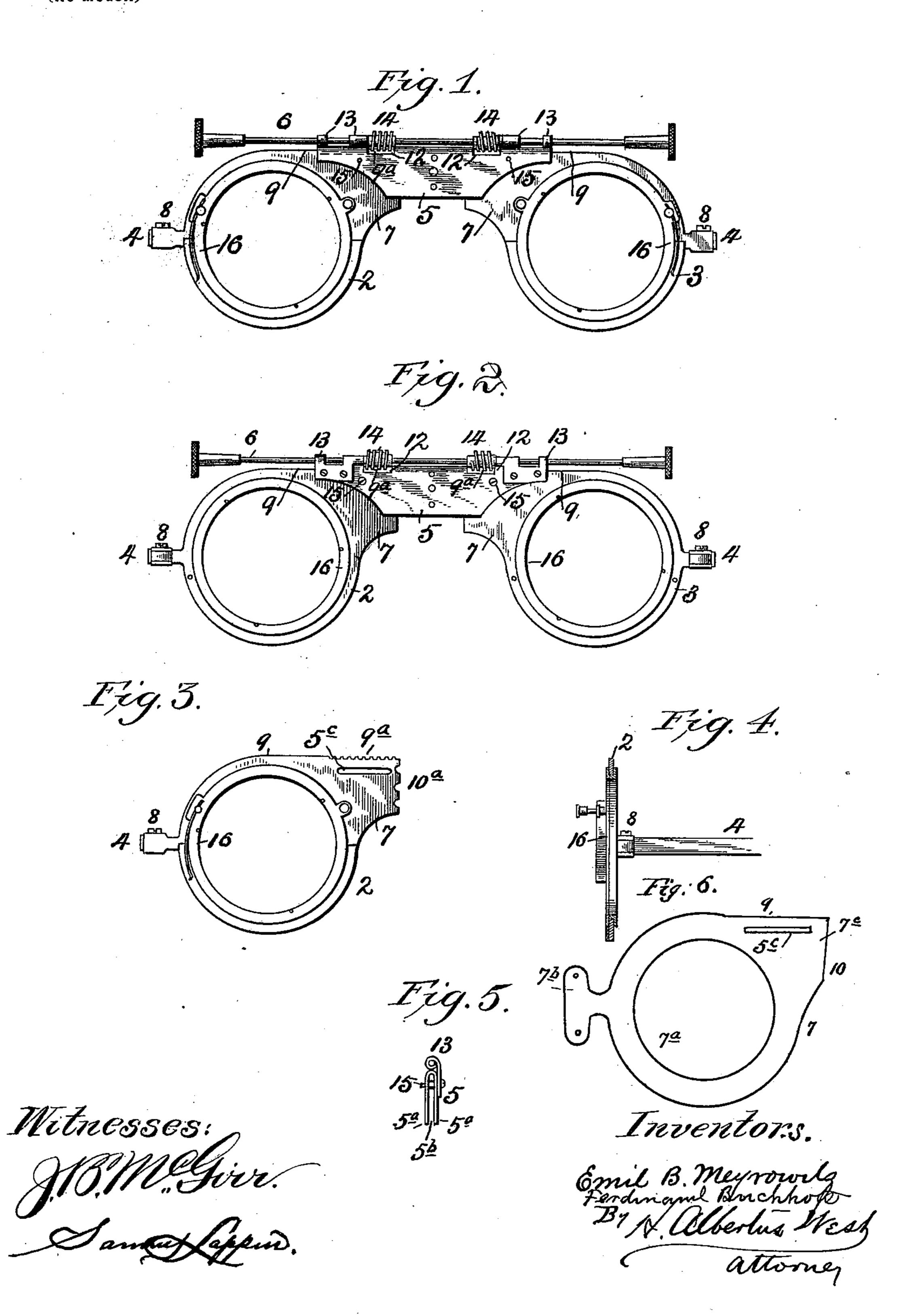
E. B. MEYROWITZ & F. BUCHHOP.

OPTICIAN'S TESTING FRAME.

(Application filed Nov. 14, 1898.)

(No Model.)



United States Patent Office.

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OPTICIAN'S TESTING-FRAME.

SPECIFICATION forming part of Letters Patent No. 635,444, dated October 24, 1899.

Application filed November 14, 1898. Serial No. 696,358. (No model.)

To all whom it may concern:

Be it known that we, EMIL B. MEYROWITZ and FERDINAND BUCHHOP, citizens of the United States, and residents of New York, in 5 the county of New York and State of New York, have invented certain new and useful Improvements in Opticians' Testing-Frames, of which the following is a specification.

This invention relates to the construction to of opticians' testing-frames; and the invention consists in the construction, arrangement, and combinations of parts, as herein-

after described and claimed.

In the accompanying drawings, to which 15 reference is made and which form a part of this specification, Figure 1 is a front elevation of our new and improved testing-frame, the nose-rest being omitted, the same not being necessary to be shown, as any desired 20 form of nose-rest may be selected for use. Fig. 2 is a like view of the opposite side of the testing-frame. Fig. 3 is a detailed view of one of the sliding eyepieces. Fig. 4 is a sectional elevation of the part shown in Fig. 3. 25 Fig. 5 is a detailed end view of the bridge or yoke piece and of one of the spindle-bearings. applied thereto, and Fig. 6 is a plan view of

the eyepiece-blank.

The testing-frame comprises the two rings 30 23, (each provided with a temple 4,) a bridge or yoke piece 5, and an adjusting-spindle 6. Each eyepiece 2 3 is formed by means of a blank 7, struck out in a die or otherwise in substantially the form shown in Fig. 6, formed 35 with an annular portion 7a, extension-ear 7b, and bridge extension 7°. In completing each blank 7 the ends of the ear 7^b are upset to form a temple-hinge 8, the upper edge 9 is provided with teeth 9a, and the edge 10 is by 40 preference notched, as shown at 10a, Fig. 3. These notches may be omitted; but we prefer to employ them and to so form them on each pair of eyepieces that the teeth of one will intermesh with the teeth of the other only when 45 the notched edges are brought to abut against each other, so that when the flanges 7 are brought together by the adjusting-spindle each eyepiece will lock the other, and thus make the frame rigid and firm as a whole. In 50 Figs. 1 and 2 the adjacent edges of the eyepieces are cut straight and come flush together, and thus brace each other, but slightly less |

satisfactorily than when the notches 10° are employed.

The bridge or yoke piece 5 is made of a 55 sheet of metal, preferably steel of proper gage, folded or united along its medial line to form two parallel cheeks 5° 5°, properly spaced to form a passage 5^b between them, which, together with the slots 5° in the eyepieces, con- 60 stitutes a way for the sliding adjustment of the eyepieces to and from each other. At the fold of the bridge-piece or yoke two notches or recesses 12 are formed to reveal the adjusting-teeth 9a, and at one side of these notches 65 or recesses 12 a bearing 13 for the spindle 6 is secured to the bridge-piece or yoke, as shown clearly in Fig. 2. The said adjusting-spindle 6 is by preference provided with worms 14, which when the spindle is held in its bear- 70 ings mesh with the racks or teeth 9a of the eyepieces.

1515 represent small screws, rivets, or bolts, which pass through the sides of the bridge or yoke piece and through the slots 5° in the 75 eyepieces, so that they not only hold the eyepieces in place, but hold the upper straight portions 9 of the eyepieces in contact with the inner surface of the fold of the bridge or yoke and securely brace up the eyepieces 80 and prevent them from sagging out of proper

alinement.

Each eyepiece is provided with a lensholder 16, of the usual or of any approved form, adapted to be rotated in the eyepiece 85 for the required rotation of the lenses.

Having thus described our invention, what we claim as new, and desire to secure by Let-

ters Patent, is—

1. In a testing-frame a bridge or yoke com- 90 posed of a piece of metal folded or united along its medial line so as to form side pieces whose inner surfaces form an extended way, combined with eyepieces held in said extended way, and means for adjusting the eye- 95 pieces back and forth in and along said way, substantially as described.

2. In a testing-frame a bridge or yoke piece folded to form a way for the eyepieces and recessed at the upper edge to form clearances 100 for the operation of the adjusting devices for the eyepieces, substantially as described.

3. In a testing-frame an eyepiece having an extension formed with a straight edge 9 at its upper side, a slot 5°, and with teeth 9°, substantially as described.

4. In a testing-frame an eyepiece having an extension formed with a straight edge 9 at its upper side, teeth 9° and with a notched edge

10°, substantially as described.

5. The testing-frame herein shown and described consisting of sliding eyepieces formed with extensions each having adjusting-teeth and a slot parallel therewith, a bridge or yoke piece having spaced cheek-pieces, recesses

therein for the adjusting devices and bearings adjacent to said recesses, a spindle held in said bearings and worms on said spindle, and pins passed through said cheek-pieces 15 and through said slots in the eyepieces, substantially as described.

EMIL B. MEYROWITZ. FERDINAND BUCHHOP.

Witnesses:

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