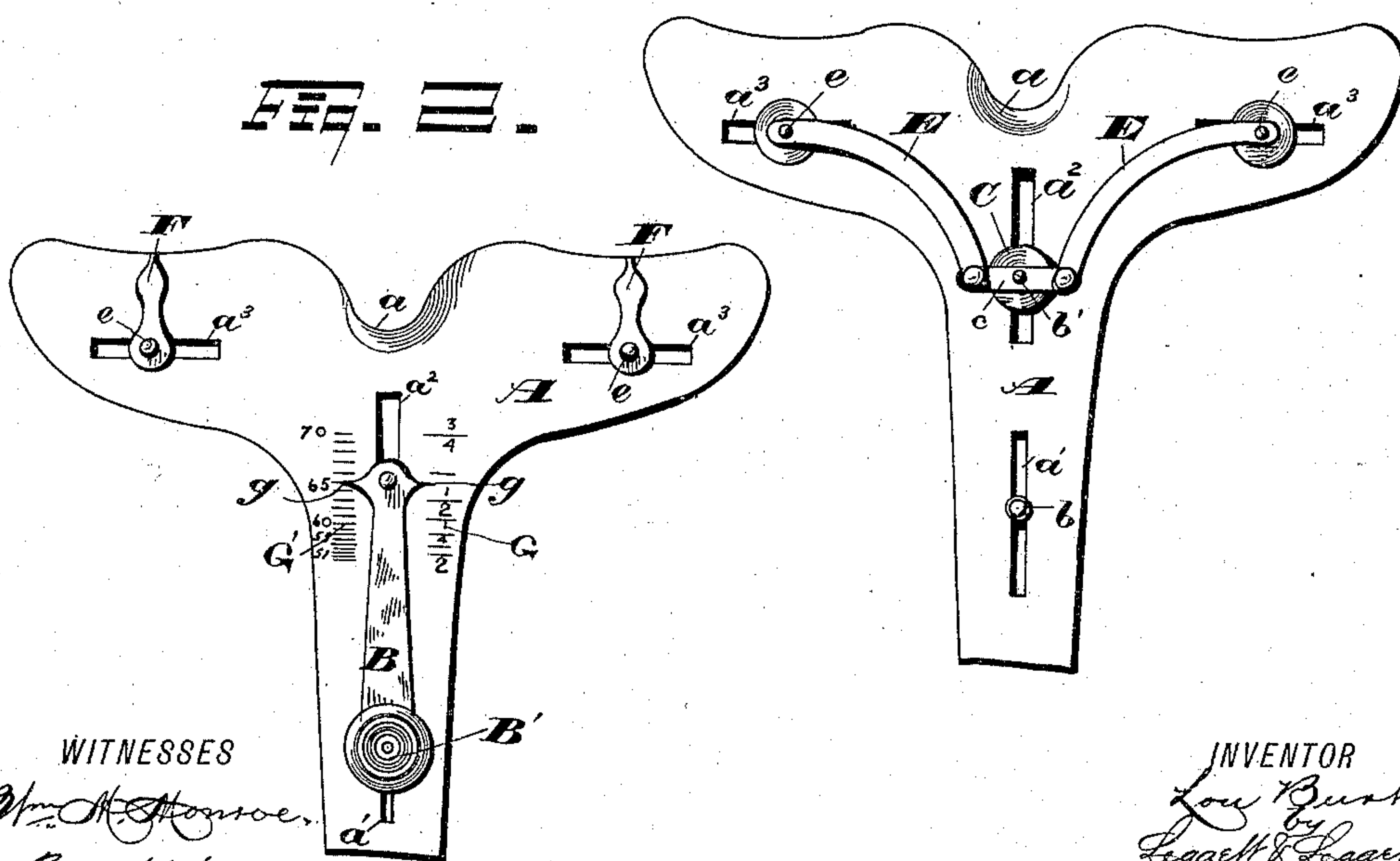


(No Model.)

L. BURT.
PUPILOMETER.

No. 331,226.

Patented Nov. 24, 1885.



WITNESSES

Wm. H. Horro.

Geo. W. King,

INVENTOR

Low Burt.
By
Leggett & Leggett
Attorneys

UNITED STATES PATENT OFFICE.

LOU BURT, OF DETROIT, MICHIGAN, ASSIGNOR TO JULIUS KING, OF CLEVELAND, OHIO.

PUPILOMETER.

SPECIFICATION forming part of Letters Patent No. 331,226, dated November 24, 1885.

Application filed April 7, 1885. Serial No. 161,442. (No model.)

To all whom it may concern:

Be it known that I, LOU BURT, of Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Pupilometers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same.

My invention relates to pupilometers, the object being to provide an instrument for accurately measuring the distance from center to center of the pupils of the eyes, to the end that spectacle-lenses may be correspondingly adjusted in the bows.

With this object in view my invention consists in certain features of construction and in combination of parts hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view in perspective, showing the manner of operating my improved pupilometer. Figs. 2 and 3 are plan views showing, respectively, the front and back sides of the instrument, but with the handle broken away.

A represents a thin plate, usually of metal, and preferably of about the form shown, constituting the body of the instrument, and provided with a handle, A'. The plate is cut away at a , and the edge bent upward to adapt it to fit astride the nose. The plate has the slots a' and a'' in line with each other and with the handle, and the slots a^3 in line with each other, but at right angles with the line of the slits a' and a'' . A slight sliding bar, B, has a thumb-piece, B', secured on top, and the rivet b , that secures the latter, passes through and operates in the slot a' . At the opposite end the bar B has a stud, b' , that passes through the slot a^2 , and has attached at the rear and next the plate A a washer, C, and outside of the washer a slight cross-bar, c . To this cross-bar, and at equal distances from the center thereof, are pivoted the connecting-rods E, that are of equal length, and are respectively pivoted to sliding blocks or studs e , that operate in the slots a^3 . These sliding blocks in front have respectively attached pointers F, that extend about flush with the edge of the plate A. By means of the connections shown, when the bar B, by means of the thumb-piece, is moved to-

ward or from the handle, the pointers F are made to approach or recede from each other, moving simultaneously and equal distances. The plate B is provided with the points g , and the plate A with scales G and G', arranged so that the points g indicate in inches on the one scale and in millimeters on the other scale the distance between the pointers F.

In operating the instrument it is placed in the position shown in Fig. 1 and pressed slightly upon the nose to steady the instrument, and the patient is directed to look straight ahead. By moving the thumb-piece B' the pointers F are brought, respectively, directly under the center of the pupil of each eye. The adjustment requires but a moment, and when the instrument is removed an accurate measurement is retained, that enables the operator to properly adjust the lenses from center to center in the spectacle-bows. The slots a' and a'' may be connected to form a continuous slot, and the cross-bar c may be dispensed with, if preferred, and the rods E pivoted one above the other on the stud b' .

The instrument is simple, accurate, and in every way desirable for the purposes specified.

What I claim is—

1. A pupilometer consisting, essentially, of a suitable supporting-plate and adjustable pointers that may be placed in juxtaposition to the eyes, a thumb-piece, and suitable connecting mechanism for moving the pointers simultaneously and equal distances toward or from each other, substantially as set forth.

2. In a pupilometer, the combination, with a plate arranged to fit astride the nose, and adjustable pointers arranged to operate in front of the eyes, of a sliding thumb-piece and suitable connecting mechanism for simultaneously moving the pointers equal distances toward or from each other, a scale, and index for noting the position of the pointers, substantially as set forth.

In testimony whereof I sign this specification, in the presence of two witnesses, this 1st day of April, 1885.

LOU BURT.

Witnesses:

GEO. W. MOORE,
M. P. HURLBUT.