

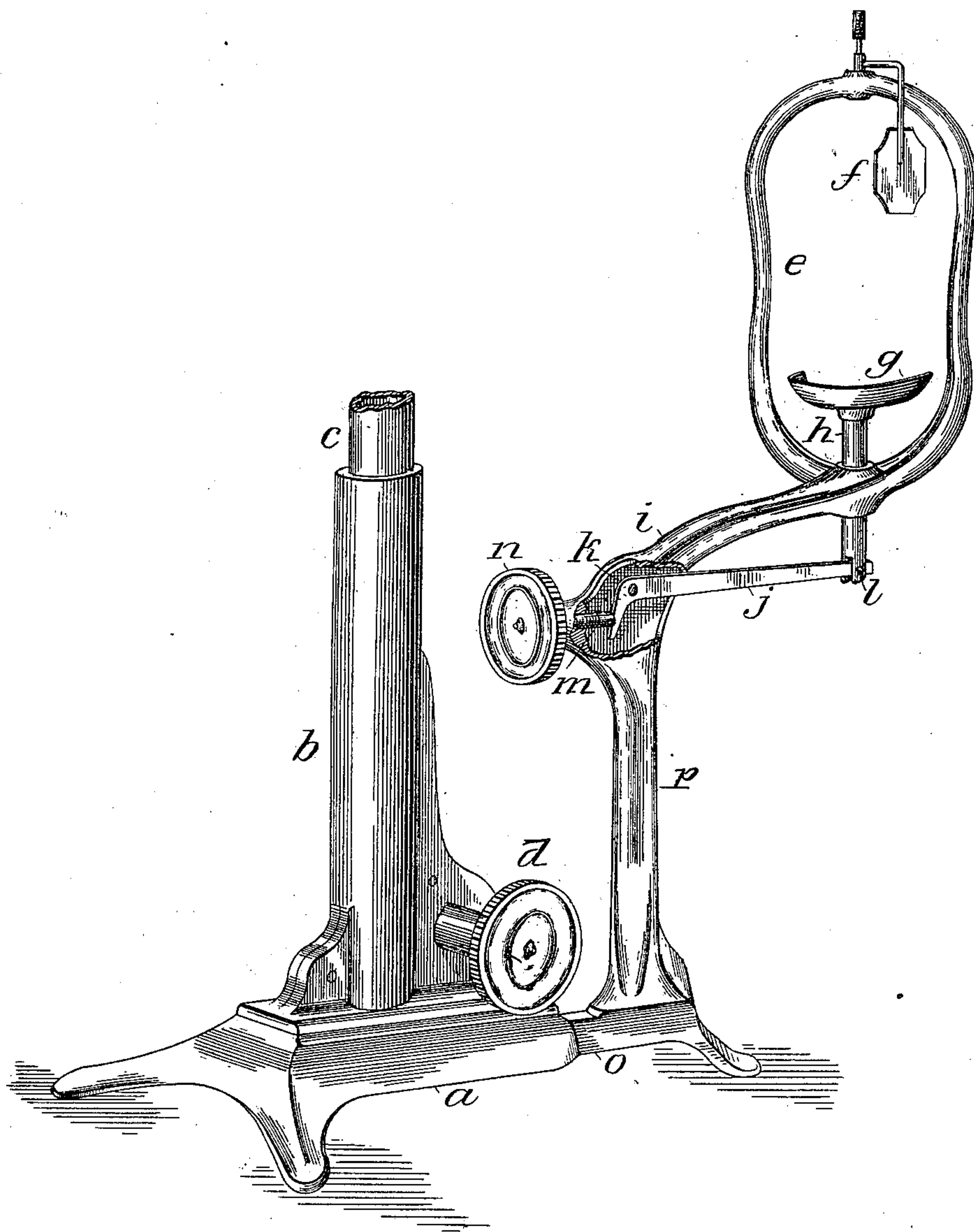
No. 681,494.

Patented Aug. 27, 1901.

J. E. CHAMBERS.
CHIN REST FOR OPHTHALMOMETERS.

(Application filed June 15, 1901.)

(No Model.)



Inventor:

John Edgerly Chambers:

by Henry H. Bates,
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Witnesses:

Louis E. Langille.
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UNITED STATES PATENT OFFICE.

JOHN EDGERLY CHAMBERS, OF CHICAGO, ILLINOIS.

CHIN-REST FOR OPHTHALMOMETERS.

SPECIFICATION forming part of Letters Patent No. 681,494, dated August 27, 1901.

Application filed June 15, 1901. Serial No. 64,666. (No model.)

To all whom it may concern:

Be it known that I, JOHN EDGERLY CHAMBERS, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Chin-Rests for Ophthalmometers; 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 appertains to make and use the same.

My invention relates to that class of optical instruments which are employed for the inspection of the human eye, known as "optometers" or "ophthalmometers," which have a chin-rest for supporting the head of the patient adjustably and in proper position for observation, with means for adjusting the position of said chin-support. The specific improvement consists, primarily, in an improved and modified standard or post for the chin-rest, combined with a rearrangement of accessory parts, whereby patients may maintain a perfectly easy and natural position while under inspection without deranging the position which the face and eyes ought to assume normal to the observing instrument and illuminated mires, and also in some subordinate features hereinafter specified.

In the drawing forming a part of this specification the figure is a perspective view of such portions of the optical instrument as are necessary to illustrate my improvement. The chin-rest proper is shown at the right of the figure; but to show it in its proper relations I have included in the drawing a portion of the main standard, having a supporting-base *a*, a rising column *b*, with extensible member *c*, on which the optical instrument is carried, and a hand-wheel *d*, by which the extensible part *c* is operated.

o is the rear member of the base, which may be extensible, as shown. On this member is borne the upright standard or post *p*, having an arm extending rearwardly at top, which carries the head-frame *e*, for locating the face of the patient under inspection. At the bottom of said head-frame, centrally placed, is the semicup-shaped chin-support *g*, sustained on a vertical rod *h*, capable of a rising-and-falling movement and adjustable as to

position by means of the lever *j* and actuating-screw *m* or any other suitable and obvious means of vertical adjustment.

n is the thumb-wheel for operating the adjusting-screw.

k is the pivot of the lever *j*, and *l* the removable pin between said lever and rod *h*.

f is a movable eye-shade.

In the chin-rest devices heretofore in use, so far as known to me, the post or standard which supports the head-frame and accessories has uniformly been vertical throughout. This construction compels a strained position in the patient and a craning of the neck to get the face in a proper position before the instrument, which soon becomes fatiguing, and to ladies of full habit doubly so, there being no accommodation for the chest or bust. To obviate this objection or defect, I place the supporting-post nearer the main standard than ordinary on the extensible foot *o* and form it with the rearward bend *i*, on which the head-frame is carried, shortening the movable rod *h* to minimum length and locating the lever *j* in the angle of the bend with a downward turn to the short arm thereof, which affords a most convenient position for the operating thumb-wheel *n*. By this construction I secure a device vastly more convenient both for the operator and the patient than the means hitherto employed, contributing to the accuracy and facility of the observations. The cup shape of the semicircular chin-rest *g* is also an improvement over the horizontal-bar rest commonly employed, by its adaptation to the form of the supported object, and being detachable and removable by means of the removable pin *l* it can be frequently cleansed and kept in sanitary condition.

I do not claim a head-frame and chin-rest, broadly, in connection with an optical instrument, these being well-known accessories of such instruments; but

What I claim, and desire to secure by Letters Patent, is—

In an optical instrument, in combination, a support consisting of an upright standard having an arm extending rearwardly at top, a head-frame on the outer end of said arm, a suitable chin-support in the lower part of

said head-frame, a vertically-movable sustaining-rod for the chin-support, an adjusting-lever pivoted near the angle of said standard, extending horizontally to engage
5 said rod, and means for adjusting said lever to bring the rod and chin-support to the required height, substantially as specified.

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

JOHN EDGERLY CHAMBERS.

Witnesses:

LOUIS R. KRATZMUELLER,
WALTER R. STEVENS.