

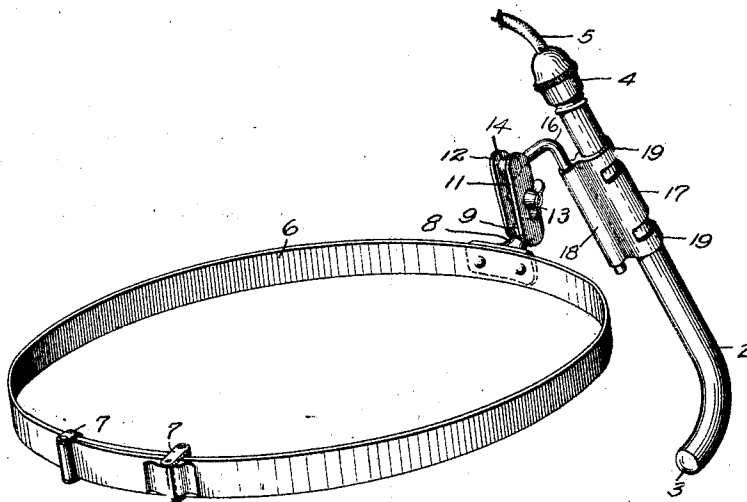
May 19, 1925.

1,538,191

M. E. LANDO

CORNEAL ILLUMINATOR

Original Filed Oct. 2, 1922



WITNESS:

H. Sherburne

INVENTOR.

Milton E. Lando

BY *White, Proct & Egan*
his ATTORNEYS.

UNITED STATES PATENT OFFICE.

MILTON E. LANDO, OF OAKLAND, CALIFORNIA, ASSIGNOR OF ONE-HALF TO HENRY M. MARSH, OF LOS ANGELES, CALIFORNIA.

CORNEAL ILLUMINATOR.

Application filed October 2, 1922, Serial No. 591,702. Renewed March 31, 1925.

To all whom it may concern:

Be it known that I, MILTON E. LANDO, a citizen of the United States of America, and a resident of Oakland, county of Alameda, and State of California, have invented a new and useful Corneal Illuminator, of which the following is a specification.

My invention relates to illuminators for use in the medical and surgical professions and is particularly adapted for the use of opticians and eye specialists.

An object of the invention is to provide an illuminator which being adjusted requires no further attention from the doctor and allows him free use of both hands.

Another object of the invention is to provide a corneal illuminator that will remain fixed relative to the eye of the patient after adjustment regardless of his movements.

My invention possesses other objects and features of advantage, some of which, with the foregoing, will be set forth in the following description of the invention. It is to be understood that I do not limit myself to the showing made by the said description as I may adopt variant forms of the invention within the scope of the claim.

Referring to the drawing, the figure is a perspective view of my device.

It has been found desirable in the medical profession, especially during surgical operations on the eye, to provide illumination that will not be interfered with by movements of the patient or the doctor. My device not only provides unobscured illumination of the parts under examination or treatment, but leaves both hands of the operator free, permitting him, as is often necessary, to hold a magnifying glass in one hand and an instrument in the other.

I employ a lamp 2 of a standard make, comprising a tube of opaque glass curved at one end and terminating in an illuminating tip 3. The opposite end of the tube is adapted to mount a conventional socket 4 thru which current is supplied by a flexible cord 5.

In the use of my device it is desirable that the lamp be secured on the patient in a manner that will allow close adjustment. In

the present instance I employ a thin metal strap 6, comprising a head band, the free ends of which are adjustably secured by buckles 7. Suitably secured to the strap 6 is a lug 8 on which is formed a ball 9 providing support for a double universal joint. The universal joint comprises a pair of plates 12 parallel to each other and adapted, by means of a wing nut 13 and screw, to be clamped upon opposite sides of the ball 9 and the ball 14 which is formed on one end of a bracket 16 bent at right angles a short distance from the ball and upon which is mounted a spring clip 17. The clip is formed to provide a tube 18 in which the bracket is frictionally disposed and is further provided with curved spring fingers 19 adapted to grip the lamp.

In use, the head band is adjusted to the patient and the lamp swung on its universal mounting and adjusted in its bracket to bring the illuminating tip opposite the inner corner of the eye adjacent the bridge of the nose. It will be noted that the lamp may be moved longitudinally in the spring fingers in addition to the universal movement provided by the bracket mounting and thus turned to direct the rays precisely as desired. This position and mounting of the lamp provides adequate illumination of the eye, which movement of either patient or surgeon does not vary.

I claim:

A corneal illuminator comprising a tubular lamp having a curved portion adjacent the illuminating end, a bracket, a spring clip for slidably mounting said lamp, an adjustable head band, a ball on said head band, a ball on the bracket, plates engaging opposite sides of said balls and a screw for adjusting the pressure of the plate upon the balls, said head band being adapted to surround the head of the patient with the illuminating end of the lamp positioned to direct the rays of the light away from the operator and upon the area under examination.

In testimony whereof I have hereunto set my hand.

MILTON E. LANDO.