finish and appearance, convenience of being out of the way when not in use and its adaptability for plaster corset work, which is not the case with the Lorenz instrument. And last, and most important, is its transportability from plaster rooms to wards, dressing rooms, x-ray room or private homes.

This apparatus may be placed on an ordinary roller table, and the patient lifted from the bed into position and partially extended, which gives immediate relief from the pain in nearly all bone lesions. Then it is wheeled to the x-ray room, and the proper extension is applied under fluoroscopic observation; then to the plaster room and the cast is applied, and, if necessary, back to the ward until the cast is hard, giving the patient pain but once. In private practice its advantages need not be mentioned, as they are quite apparent.

This device complete can be made by any good instrument-maker or by a good machinist, and costs about $70. This includes the best materials and all metal parts nickel, There are no parts to wear or break, and when well made the apparatus is exceedingly handsome and forms an important adjunct to any surgeon's armamentarium.

AN ILLUMINATED EYE SPUD AND KNIFE NEEDLE.

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To remove a foreign body from the cornea with dexterity and without undue injury, particularly where the object is small, and difficult to see, one often requires three hands, one hand to hold the lids, another for the eye spud, and a third to condense the light on the eye. Every physician knows how difficult and awkward it is to hold a patient's lids and with the same hand try to condense the light on the cornea.

With the end in view of rendering this common operation easy of performance, I devised an instrument which does away with the need of an extra hand to condense the light on the cornea. Briefly, this is an instrument which combines the spud and light, consisting, as originally devised, of a handle about five inches in length, through which run the wires to a tiny incan-

Author's combined illuminated eye spud and knife needle.

descent condensing lamp at its end. A short distance from the end of the handle is a clamp into which is fastened a spud of sufficient length, and bent at such an angle as to bring its tip into the center of the circle of light thrown by the lamp.

Such an instrument was made in accordance with my idea and on my suggestion, but the manufacturers have since modified and somewhat improved it by reversing the position of the light and spud. As now made the spud is attached directly at the end of the handle, the light being thrown on the field at an angle through an arm thrown out from the side of the handle. This makes a somewhat better instrument by lessening the shadow thrown by the spud. The same instrument, with a knife needle in place of a spud, is admirably adapted to the performance of the operation for secondary cataract, where the illumination is of so great importance.