

TECHNOLOGY OFFER

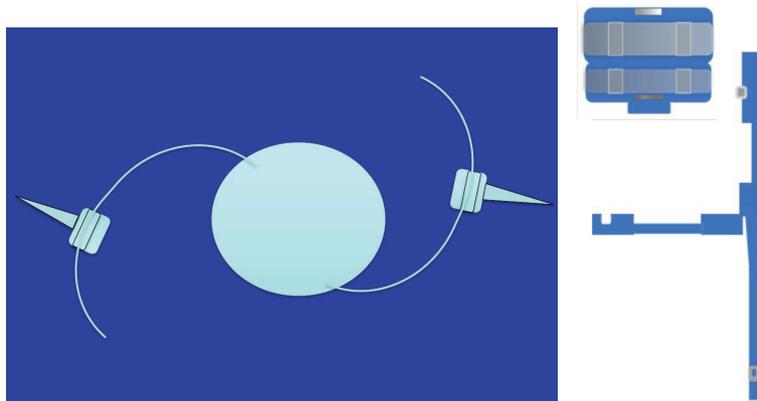
A fixation clip for preventing decentration or subluxation of Intraocular Lenses (IOL) in eyes without capsule support

BACKGROUND

Currently, the eye surgeons prefer the "Iris fixation of IOL" technique, to treat eyes without capsule support after complicated cataract surgeries. However, this method needs big size surgical incision and also leads to some complications like damage to the iris, limitation of pupil reaction, corneal alteration and glaucoma. Trans-scleral intraocular lens (IOL) fixation of a three piece IOL is becoming an alternative option for the aphakic eyes with insufficient capsule support to regain visual acuity. By this surgical technique, the end-part of the haptics would be inserted through the sclera into the scleral-conjunctival space. The main post-surgical complications are decentration and/or tilt of the IOL, which can cause significant decrease in visual acuity. To avoid these complications, the haptics should be handled very gentle and parts of the IOL haptics, should be in precise direction/distance in order to provide proper centration of the implanted IOL. In addition to these difficulties, the scleral fixation technic could not be used in single piece IOLs, which are nowadays widely used.

TECHNOLOGY

To perform the above-described surgical technique and to achieve an optimal outcome following surgery is still a challenging task for cataract surgeons. The invention (new clip for scleral IOL fixation procedure) is a novel approach to treat aphakic eyes with insufficient capsule support. The novel fixation clip is a small (~2,4mm wide) device, which allows the scleral fixation of haptics of both a single piece and three piece IOL.



BENEFITS

- This new device simplifies scleral fixation of dislocated posterior chamber IOLs and allows repositioning of dislocated/subluxated IOLs.
- This device allows to implant toric IOLs too.
- This surgery is possible with a small clear corneal incision, which reduces the rate of postoperative corneal astigmatism.
- Using this device leads to significant less decentration and tilting of IOL.
- The surgery is less invasive, safe and the duration of the surgery will be shorter.

REFERENCE:
766.18

OPTIONS:
Licence agreement
Development partner/
Cooperation

IPR:
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