

Accommodative Intraocular Lens

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Technology description

Summary

The proposed technology is a lens-shaped soft bag, consisting of elastic silicone rubber and filled with silicone gel. With a special design of the lens bag and the supporting frame, the artificial intraocular lens (IOL) will be able to adjust focal length according to the change of the ciliary muscle. This IOL design has great potential to restore the accommodative function of the patient after cataract extraction surgery. The accommodative intraocular lens includes a frame for engaging the lens structure with the lens capsule of the eye such that contraction of the lens capsule pushes the lens structure contracting inwardly, and relaxation of the lens capsule pulls the lens structure extending outwardly so as to change the geometry of the lens structure to adjust the focal power of the lens structure accordingly.

Institution

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