

Title (en)
METHOD AND APPARATUS FOR ADJUSTING CORNEAL CURVATURE USING A CORNEAL RING WITH REMOVABLE BIOCOMPATIBLE MATERIAL

Title (de)
VERFAHREN UND VORRICHTUNG FÜR DIE EINSTELLUNG DER HORNHAUTKRÜMMUNG MITTELS EINESKORNEARINGES MIT ENTFERNBAREM BIOKOMPATIBLEN MATERIAL

Title (fr)
PROCEDE ET DISPOSITIF POUR AJUSTER LA COURBURE DE LA CORNEE AU MOYEN D'UN ANNEAU CORNEEN AVEC UN MATERIAU BIOCOMPATIBLE ENLEVE

Publication
EP 0964660 A1 19991222 (EN)

Application
EP 97952331 A 19971209

Priority
• US 9722548 W 19971209
• US 76136296 A 19961209
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• US 85665097 A 19970515

Abstract (en)
[origin: WO9825547A1] An adjustable intrastromal device adapted for implantation in the cornea and formed of a flexible hollow shell (30a) which is implantable into the cornea in encircling relation to the central optic zone of the cornea. The implant is filled by a predetermined amount with a select quantity of solid biocompatible material in various forms such as solid ring (38) or strands composed of flexible polymeric materials of various shape and length, or alternatively, a fluid such as saline or gel in compartments (117) of the shell (107) that may be selectively punctured. The biocompatible filler material is strategically located within the flexible shell to alter its dimensions in thickness or diameter and thereby adjust the corneal curvature to correct for refractive error. Further adjustment of the implant may be made post-operatively after implantation by select removal of the biocompatible filler material, or addition of new material to the device.

IPC 1-7
A61F 2/14; **A61M 31/00**

IPC 8 full level
A61F 9/007 (2006.01); **A61F 2/14** (2006.01)

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Citation (search report)
See references of WO 9825547A1

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