

Title (en)

ARTIFICIAL LENS INCLUDING A MULTIFOCAL LENS SYSTEM HAVING ECCENTRIC AXIS

Title (de)

MIT EINEM MULTIFOKALEN LINSENSYSTEM AUSGESTATTETE KÜNSTLICHE LINSE MIT EINER EXZENTRISCHEN ACHSE

Title (fr)

LENTILLE ARTIFICIELLE COMPRENANT UN SYSTEME DE LENTILLES MULTIFOCAL AYANT UN AXE EXCENTRE

Publication

EP 1075233 A1 20010214 (EN)

Application

EP 98920202 A 19980430

Priority

US 9809059 W 19980430

Abstract (en)

[origin: WO9956671A1] An artificial lens adapted for use in an eye having a macula is shown. The artificial lens is adapted to be affixed to an eye and has a multifocal optical lens system wherein the principal axis of each lens is eccentric to each other for directing light rays from each image of each lens of the multifocal optical lens system onto a macula of an eye. In the preferred embodiment, the artificial lens includes a first lens having a predetermined diopter power for receiving light rays from a near object and a prism having a preselected diopter power. The prism is positioned on a selected surface of the first lens for directing paracentral light rays from a near object onto a macula of an eye and central light rays to a location superior of the macula. The artificial lens includes a second lens having a predetermined diopter power positioned eccentrically inferior of said first lens for receiving light rays from a distant object and a second prism having a preselected diopter power. The second prism is positioned on a selected surface of the second lens for directing paracentral light rays from a distant object onto a macula of an eye and central light rays to a location inferior of the macula. A method for producing multiple images of an object for an eye is also shown.

IPC 1-7

A61F 2/16; **A61F 2/14**

IPC 8 full level

A61F 2/14 (2006.01); **A61F 2/16** (2006.01)

CPC (source: EP US)

A61F 2/141 (2013.01 - US); **A61F 2/145** (2013.01 - EP); **A61F 2/1613** (2013.01 - EP US); **A61F 2/1618** (2013.01 - EP);
A61F 2/1648 (2013.01 - EP); **A61F 2002/1681** (2013.01 - EP)

Citation (search report)

See references of WO 9956671A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 9956671 A1 19991111; AU 7282898 A 19991123; CA 2333734 A1 19991111; CA 2333734 C 20081118; EP 1075233 A1 20010214

DOCDB simple family (application)

US 9809059 W 19980430; AU 7282898 A 19980430; CA 2333734 A 19980430; EP 98920202 A 19980430