

Title (en)

MULTI-FOCAL PROSTHESIS, AND METHODS FOR MAKING AND USING SAME

Title (de)

MULTIFOKALE PROTHESE UND VERFAHREN ZU IHRER HERSTELLUNG UND VERWENDUNG

Title (fr)

PROTHESE MULTIFOCAL, ET PROCEDES DE FABRICATION ET D'UTILISATION DE CELLE-CI

Publication

**EP 1954213 A4 20121017 (EN)**

Application

**EP 06837602 A 20061114**

Priority

- US 2006044245 W 20061114
- US 73587905 P 20051114

Abstract (en)

[origin: WO2007059160A2] A prosthesis is provided, which includes a positive lens, a negative lens spaced from the positive lens and aligned with the positive lens along an optical axis, and an optic body supporting the positive lens and the negative lens in spaced relation to one another to establish a chamber between the lenses. An optically transmissive primary fluid is contained in the chamber of the optic body. The primary fluid is situated such that orienting the optical axis in a horizontal orientation for far vision positions the optical axis through the primary fluid. An optically transmissive secondary fluid is contained in the chamber of the optic body and is substantially immiscible with the primary fluid. The secondary fluid has a different density and refractive index than the primary fluid. The secondary fluid is situated such that orienting the optical axis for near vision at a range of effective downward angles relative to the horizontal orientation positions the optical axis to extend through the primary fluid and the secondary fluid. Related methods are also provided.

IPC 8 full level

**A61F 2/16** (2006.01)

CPC (source: EP)

**A61F 2/1648** (2013.01); **A61F 2/1627** (2013.01); **A61F 2250/0053** (2013.01)

Citation (search report)

- [IY] US 2005071002 A1 20050331 - GLAZIER ALAN [US]
- [Y] US 4720286 A 19880119 - BAILEY KELVIN E [US], et al
- [A] WO 2004054471 A2 20040701 - POWERVISION [US]
- [A] US 5522891 A 19960604 - KLAAS DIETER W [DE]
- See references of WO 2007059160A2

Designated contracting state (EPC)

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DOCDB simple family (publication)

**WO 2007059160 A2 20070524; WO 2007059160 A3 20071004**; CA 2631261 A1 20070524; EP 1954213 A2 20080813; EP 1954213 A4 20121017; JP 2009515651 A 20090416; JP 4931932 B2 20120516

DOCDB simple family (application)

**US 2006044245 W 20061114**; CA 2631261 A 20061114; EP 06837602 A 20061114; JP 2008541290 A 20061114