

Title (en)  
CONTACT LENS.

Title (de)  
KONTAKTLINSE.

Title (fr)  
LENTILLE DE CONTACT.

Publication  
**EP 0231174 A4 19900205 (EN)**

Application  
**EP 85904046 A 19850808**

Priority  
US 8501494 W 19850808

Abstract (en)  
[origin: WO8700936A1] A contact lens wherein at least one of its surfaces, generally the posterior surface, is an aspheric surface of revolution which decreases in curvature from its apex to its periphery and which varies in a continuous and regular manner in eccentricity from its apex to its periphery. The novel surface is defined in terms of three parameters: apical radius of curvature; apical eccentricity; and collectively one or more derivatives of eccentricity. The lens with the novel surface posterior is so designed that the novel surface approximates the contour of the cornea while at the same time producing optical properties in the lens for optimal correction of the refractive error of the non-presbyopic eye, and when presbyopia exists, for the correction of the refractive error of the eye and presbyopia.

IPC 1-7  
**G02C 7/04; G02C 7/06**

IPC 8 full level  
**G02C 7/04** (2006.01)

CPC (source: EP)  
**G02C 7/04** (2013.01)

Citation (search report)

- [A] EP 0070006 A1 19830119 - AUTOMATED OPTICS [US]
- [A] GB 2132785 A 19840711 - NAT PATENT DEV CORP
- [A] APPLIED OPTICS, vol. 19, no. 13, 1st July 1980, pages 2226-2234, Optical Society of America, New York, US; G.T. BAUER: "Longitudinal spherical aberration of modern, ophthalmic lenses and its effect on visual acuity"
- See references of WO 8700936A1

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**WO 8700936 A1 19870212**; AU 4721385 A 19870305; AU 594308 B2 19900308; EP 0231174 A1 19870812; EP 0231174 A4 19900205; JP H0257290 B2 19901204; JP S63500403 A 19880212

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