

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
19 November 2009 (19.11.2009)

(10) International Publication Number
WO 2009/140080 A3

(51) International Patent Classification:
A61F 2/16 (2006.01) G02C 7/04 (2006.01)

(74) Agent: WEBER, David; c/o Abbott Medical Optics Inc.,
1700 E. St. Andrew Place, Santa Ana, CA 92705 (US).

(21) International Application Number:
PCT/US2009/042449

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(22) International Filing Date:
30 April 2009 (30.04.2009)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
12/120,201 13 May 2008 (13.05.2008) US

(71) Applicant (for all designated States except US): AMO REGIONAL HOLDINGS [US/US]; Block B, Liffey Valley Office Campus, Quarryvale (IE).

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventors; and
(75) Inventors/Applicants (for US only): WEEBER, Hendrik, A. [NL/NL]; Veenweg 18c, NL-9728 Groningen (NL). PIERS, Patricia, A. [NL/NL]; Tuinbouwstraat 13, NL-9717JA Groningen (NL). REISIN, Carina, R. [IL/US]; 10417 Vernon Lane, Tustin, CA 92782 (US).

[Continued on next page]

(54) Title: INTRAOCULAR LENS HAVING EXTENDED DEPTH OF FOCUS

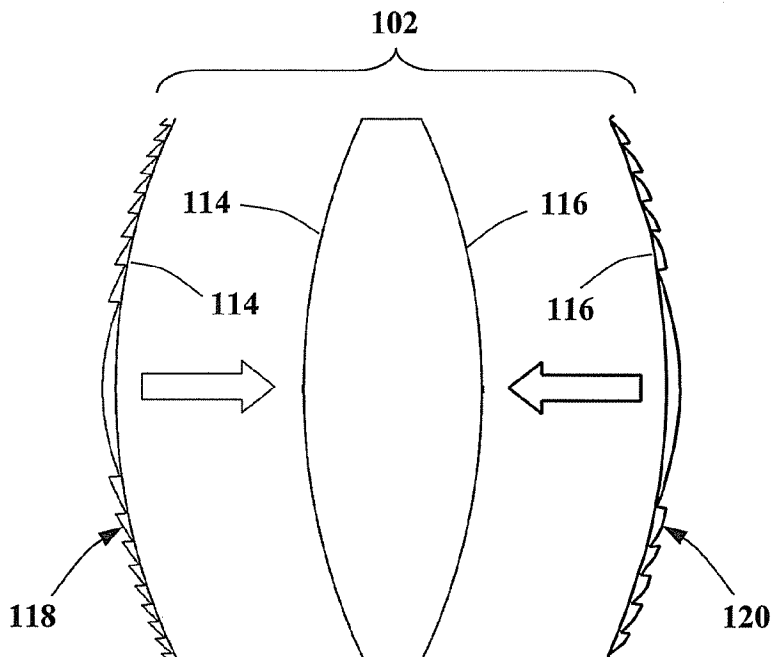


FIG. 2

(57) Abstract: An ophthalmic lens for providing enhanced or extended depth of focus includes an optic having an aperture disposed about an optical axis. The optic includes a first surface having a first shape and an opposing second surface having a second shape, the first and second surfaces providing, a base power and, in some embodiments an add power. The optic further includes an extended focus mask disposed upon at least one of the first shape and the second shape that is configured to provide the enhanced or extended depth of focus for one or more foci of the optic, as compared to a similar optic not having the extended focus mask.

WO 2009/140080 A3



Published:

(88) Date of publication of the international search report:

30 December 2009

- *with international search report (Art. 21(3))*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

INTERNATIONAL SEARCH REPORT

International application No

PCT/US2009/042449

A. CLASSIFICATION OF SUBJECT MATTER -
 INV. A61F2/16 G02C7/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 A61F G02C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2006/047698 A (ADVANCED MEDICAL OPTICS INC [US]; BANDHAUER MARK H [US]; LANG ALAN J []) 4 May 2006 (2006-05-04) paragraphs [0043], [0045], [0054], [0058], [0066], [0068], [0069], [0073] figures 1,7	1-14, 17-22
X	WO 2007/092948 A (ALCON MFG LTD [US]; HONG XIN [US]; VANNOY STEPHEN J [US]; ZHANG XIAOXI) 16 August 2007 (2007-08-16) figures 4A,7 page 14, line 9 - page 15, line 10 page 18, lines 14-21 page 19, lines 23-30	1-14, 17-22

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents :

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

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Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

Z document member of the same patent family

Date of the actual completion of the international search

21 August 2009

Date of mailing of the international search report

05/11/2009

Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040,
 Fax: (+31-70) 340-3016

Authorized officer

de Lajarte, Gilles

INTERNATIONAL SEARCH REPORT

International application No

PCT/US2009/042449

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 92/22264 A (ALLERGAN INC [US]) 23 December 1992 (1992-12-23) figures 4A,7 page 18, lines 14-21 page 19, lines 23-30	1-14, 17-22
X	US 2006/176572 A1 (FIALA WERNER J [AT]) 10 August 2006 (2006-08-10) figures 2,3 page 1, lines 8-13 page 23, lines 8-12	1-14, 17-22
X	US 2006/238702 A1 (GLICK ROBERT E [US] ET AL) 26 October 2006 (2006-10-26) figures 10,11 paragraphs [0096], [0097], [0106], [0112]	1-14, 17-22
P, X	WO 2007/133384 A (PORTNEY VALDEMAR [US]) 22 November 2007 (2007-11-22) figures 5-7,11,13 page 13, lines 11,12 page 22, lines 12-22 page 23, lines 4-6,12-22 page 24, lines 1-10	1-14, 17-22

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2009/042449

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

-This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this international search report covers allsearchable claims.

2. As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.

3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

see annex

Remark on Protest

- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1 - 14, 17 - 22

Multifocal IOL with a diffractive or refractive mask

2. claims: 15, 16

Multifocal IOL with a phase affecting, non diffractive mask

3. claims: 23 - 36, 39 - 46

Accomodating IOL with a diffractive or refractive mask

4. claims: 37, 38

Accomodating IOL with a phase affecting, non diffractive mask

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2009/042449

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