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(81) **Designated States** *(unless otherwise indicated, for every kind of national protection available):* AE, AG, AL, AM, 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, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

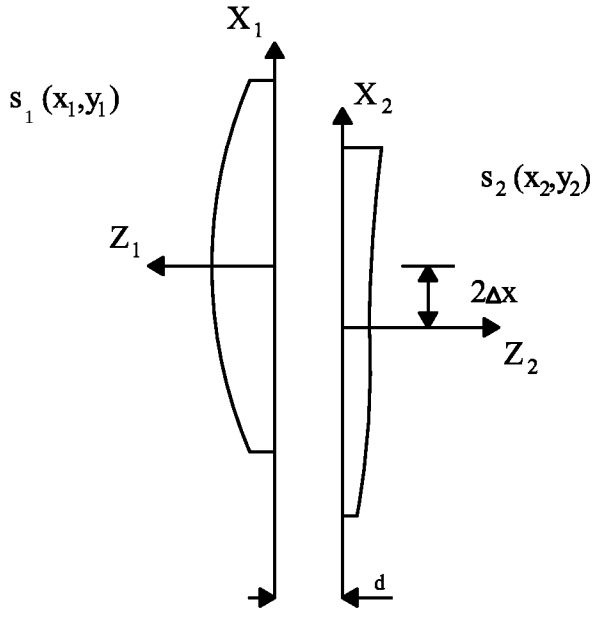
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Declaration under Rule 4.17:
— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(U))*

Published:
— *with international search report*
— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

(88) **Date of publication of the international search report:**
18 September 2008

(54) **Title:** ACCOMMODATING INTRAOCULAR LENS WITH VARIABLE CORRECTION



(57) **Abstract:** The invention relates to an accommodating intraocular lens with variable optical power, comprising at least two optical elements, at least one of which is movable relative to the other in a direction perpendicular to the optical axis, wherein the optical elements have such a form as to result in a lens with different optical power at different relative positions of the optical elements, wherein at least two of the optical elements of the lens comprises at least one additional optical correction surface which correction surfaces are adapted for simultaneous variable correction of one or more optical aberrations of the natural eye in which the degree of correction depends on the relative position of the optical elements. These features allow to correct both aberrations of the natural eye and those of the intraocular lenses themselves.

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INTERNATIONAL SEARCH REPORT

International application No
PCT/EP2007/063871

A. CLASSIFICATION OF SUBJECT MATTER
INV. A61F2/16

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

B. RELDS 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 , WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category'	Citation of document with indication where appropriate of the relevant passages	Relevant to claim No
A	WO 2006/025726 A (VU MEDISCH CT [NL]; VAN DER HEIODE GERRIT LUDOLPH [NL]) 9 March 2006 (2006-03-09) page 3, lines 10-12 page 5, lines 6-16 page 6, lines 1-12 page 9, lines 9,10; claims 1,4-6,12; figures 1-3	1-5

-/-

[X] Further documents are listed in the continuation of Box C

[X] See patent fanily 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 prιorιty 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 prιomy date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance the claimed invention cannot be considered lo involve an inventive step when the document is combined with one or more other such docu¬ments such combination being obvious lo a person skilled in the art

'&' document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
4 July 2008	21/07/2008

Name and mailing address of the ISA/	Authorized officer
European Patent Office P B 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel (+31-70) 340-2040, Tx 31 651 epo nl Fax (+31-70) 340-3016	Merte, Birgit

INTERNATIONAL SEARCH REPORT

International application No
PCT/EP2007/063871

C(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication where appropriate, of the relevant passages	Relevant to claim No
A	CHENG HAN; BARNETT JUSTIN K; VILUPURU ABHIRAM S; MARSACK JASON D; KASTHURI RANGAN SANJEEV; APPLEGATE RAYMOND A; ROORDA AUSTIN: "A population study on changes in wave aberrations with accommodation." JOURNAL OF VISION, vol. 4, no. 4, 20 April 2004 (2004-04-20), pages 272-280, XP009102675 United States cited in the application page 272, paragraph 1 page 273, paragraph 7 page 275, paragraph 2; figures 4,5	2-6, 16
A	WO 2006/118452 A (AKKOLENS INTERNAT B V [NL]; ROMBACH MICHIEL CHRISTIAAN [NL]) 9 November 2006 (2006-11-09) cited in the application page 1, lines 3-9 page 3, lines 21,22 page 7, lines 22-24; figure 1	1,9, 16, 17
A	WO 01/85067 A (UNISEARCH LTD [AU]; HO ARTHUR [AU]; ERICKSON PAUL [AU]; MANNS FABRICE) 15 November 2001 (2001-11-15) page 11, line 28 - page 12, line 33 page 18, lines 13-16 page 25, lines 11-21; claims 18,45-47; figures 4c,4d,5d	1,12,13, 16
A	WO 01/80781 A (EMMETROPIA INC [US]) 1 November 2001 (2001-11-01) page 10, lines 27,28 page 11, line 12 - page 12, line 16; claim 1; figure 15	1,14
P,X P,A	WO 2007/015640 A (AKKOLENS INTERNAT B V [NL]; ROMBACH MICHIEL CHRISTIAAN [NL]) 8 February 2007 (2007-02-08) page 1, lines 3-20 page 6, line 11 - page 7, line 1 page 8, lines 27-30 page 10, lines 1-6 page 12, lines 22-26; claims 1-3,5,8; figures 6-8	1,2,4-7 3

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II. 1

Claims Nos. : 14, 15

Rule 39.1(iv) PCT - Method for treatment of the human or animal body by surgery
In particular, the step "implanting the lens into the human eye" must be considered as a highliy invasive step requiring an ophthalmo-surgeon performing a surgical operation including the formation of an incision into eye tissue

International application No.
PCT/EP2007/063871

INTERNATIONAL SEARCH REPORT

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 I7(2)(a) for the following reasons:

1 JjT] Claims Nos - 14 15
because they relate to subject matter not required to be searched by this Authority, namely:

see FURTHER INFORMATION sheet PCT/ISA/210

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 **D** 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.

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 reportcovers 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.-

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.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/EP2007/063871

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
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			EP	1881806 A1	30-01-2008
			NL	1029037 C2	14-11-2006