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— *with international search report*

[Continued on next page]

- (54) Title:** UNITARY ACCOMMODATING INTRAOCULAR LENSES (AIOLS) AND DISCRETE BASE MEMBERS FOR USE THEREWITH

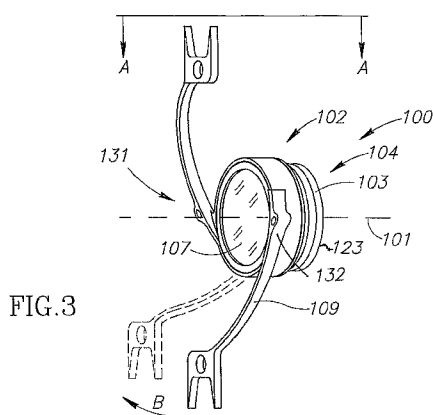


FIG.3

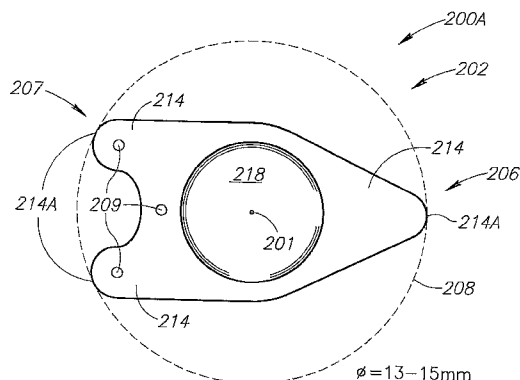


FIG.28

(57) Abstract: Unitary accommodating intraocular lenses (AIOLs) including a haptics system for self-anchoring in a human eye's ciliary sulcus and a resiliently elastically compressible shape memory optical element having a continuously variable Diopter strength between a first Diopter strength in a non-compressed state and a second Diopter strength different than its first Diopter strength in a compressed state. The unitary AIOLs include an optical element with an exposed trailing surface and are intended to be used with a discrete base member for applying an axial compression force against the exposed trailing surface from a posterior direction. Some unitary AIOLs are intended to be used with either a purpose designed base member or a previously implanted standard in-the-bag IOL. Other unitary AIOLs are intended to be solely used with a purpose designed base member.



— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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INTERNATIONAL SEARCH REPORT

International application No

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A. CLASSIFICATION OF SUBJECT MATTER
INV. **A61F2/16**

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

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 2005/104994 A (NULENS LTD [IL]; BEN NUN JOSHUA [IL]) 10 November 2005 (2005-11-10) cited in the application	1-4,8
A	page 6, line 4 - page 8, line 7 page 9, line 15 - page 10; claim 2 figures 8,12	5-7
Y	-----	12
A	EP 1 321 112 A (NAGAMOTO TOSHIYUKI [JP]) 25 June 2003 (2003-06-25) abstract	1
A	----- US 4 122 556 A (POLER STANLEY) 31 October 1978 (1978-10-31) column 3, lines 57-68 figures 6-8 ----- -/-	1



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents :

1A" 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

1L' 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

1P" 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

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 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.

* & 1 document member of the same patent family

Date of the actual completion of the international search

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INTERNATIONAL SEARCH REPORT

International application No

PCT/IL2008/000284

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Y	US 5 288 293 A (O'DONNELL JR FRANCIS E [US]) 22 February 1994 (1994-02-22) column 4, lines 1-6 figure 5 -----	12
A	US 6 443 984 B1 (JAHN MARIANNE [DE] ET AL) 3 September 2002 (2002-09-03) column 4, lines 16-21 column 5, line 16 - column 6, line 13 figures 8,13 -----	9-12
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A		14,15, 18-21
A	US 2003/109926 A1 (PORTNEY VALDEMAR [US]) 12 June 2003 (2003-06-12) paragraphs [0017], [0046], [0061] - [0063]; figure 13 -----	21-26
A	US 4 892 543 A (TURLEY DANA F [US]) 9 January 1990 (1990-01-09) column 3, lines 43-53 figure 2 -----	21-26

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IL2008/000284

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 additi onal sheet

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

2. **D** 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.

FURTHER INFORMATION CONTINUED FROM PCT/ASA/ 210

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

1. claims: 1-8

An AIOL with an optic element and a haptics system with, puncturing elements and a heat deformable region and a tubular interposer with a flange.

2. claims: 1,9-12

An AIOL with- an optic element and a haptics system with a flange, puncturing elements and a heat deformable region that includes an element inserted into a bore.

3. claims: 1,13-17

An AIOL with an optic element and a haptics system with a flange, puncturing elements and a heat deformable region wherein the optic's rear surface presents a specific configuration with respect to the haptics main body's trailing face.

4. claims: 1,18-21

An AIOL with an optic element and a haptics system with a flange, puncturing elements and a heat deformable region, and a trailing bulge control element.

5. claims: 22-34

A base member with a planar body, an aperture, a piston member and two tapering wings.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IL2008/000284

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