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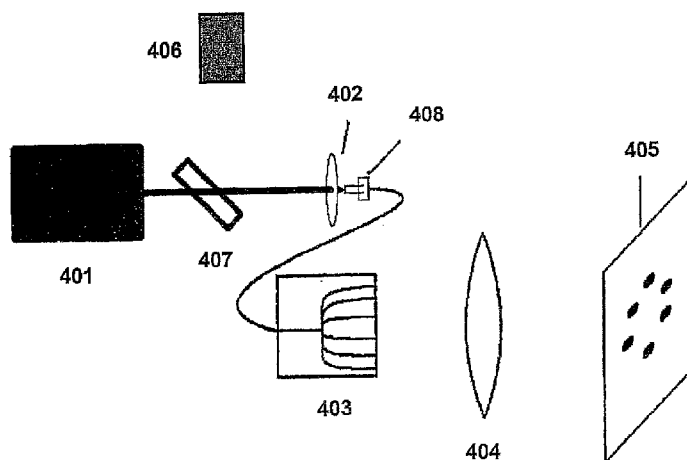
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(54) Title: PROCESSES AND APPARATUS FOR PREVENTING, DELAYING OR AMELIORATING ONE OR MORE SYMPTOMS OF PRESBYOPIA

FIG. 4



(57) Abstract: The present invention generally relates to an apparatus and processes for preventing or delaying presbyopia. More particularly, the present invention relates to processes and apparatus for ablating epithelial cells in the germinative zone or the pregerminative zone of the crystalline lens of the eye so that onset or progression of presbyopia or one or more symptoms is delayed or prevented. The present invention also relates to processes and apparatus for promoting formation of suture lines in the crystalline lens of the eye so that onset or progression of presbyopia or one or more symptoms is delayed or prevented. The present invention also relates to processes and apparatus for creating disruptions in the vitreous humor of the eye.

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2009/038909

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - A61F 9/01 (2009.01)

USPC - 606/4

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)

IPC(8) - A61B 18/18; A61F 9/01 (2009.01)

USPC - 424/93.7; 435/371; 604/21; 606/4, 5, 6

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 practicable, search terms used)

PatBase, Google Patents, Dialog Pro

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/0013572 A1 (BERLIN) 31 January 2002 (31.01.2002) entire document	26
Y		27
Y	US 2005/0080484 A1 (MARMO et al) 14 April 2005 (14.04.2005) entire document	1, 20, 21
Y	US 2006/0100613 A1 (MCARDLE et al) 11 May 2006 (11.05.2006) entire document	1, 20, 21
Y	WO 99/03999 A1 (NABEL et al) 28 January 1999 (28.01.1999) entire document	27
A	US 5,246,435 A (BILLE et al) 21 September 1993 (21.09.1993) entire document	1, 20, 21, 26, 27
A	US 2007/0065415 A1 (KLEINSEK et al) 22 March 2007 (22.03.2007) entire document	1, 20, 21, 26, 27
A	US 5,230,334 A (KLOPOTEK) 27 July 1993 (27.07.1993) entire document	1, 20, 21, 26, 27
A	US 6,491,688 B1 (LIN et al) 10 December 2002 (10.12.2002) entire document	1, 20, 21, 26, 27
A	WO 2006/089288 A3 (MCARDLE et al) 24 August 2006 (24.08.2006) entire document	1, 20, 21, 26, 27

☐ Further documents are listed in the continuation of Box C.

\* 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 application or patent 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

"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

"&amp;" document member of the same patent family

Date of the actual completion of the international search

20 May 2009

Date of mailing of the international search report

02 JUN 2009

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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2009/038909

## 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.: 9-19  
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 all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying 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.:

### 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.