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LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,  
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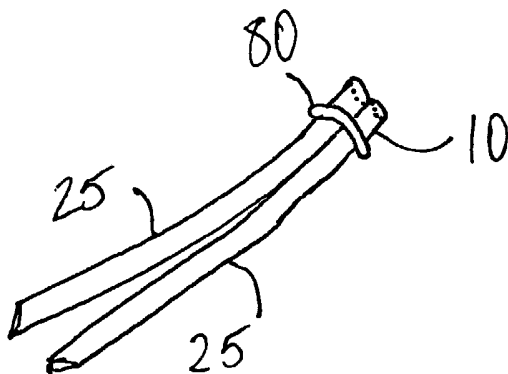
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(54) Title: IMPROVED SHUNT DEVICE AND METHOD FOR TREATING GLAUCOMA



(57) Abstract: The present invention provides a shunt for the flow of aqueous humor from the anterior chamber of the eye to Schlemm's canal. The device comprises at least one lumen and optionally has at least one anchor extending from the proximal portion within the anterior chamber to assist in placement and anchoring of the device in the correct anatomical position.



WO 03/015659 A3

**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/US02/26100

<p><b>A. CLASSIFICATION OF SUBJECT MATTER</b>                  IPC(7) : A61M 5/00, 31/00; A61F 2/06, 2/14                  US CL : 604/8, 521; 623/1.15, 4.1                  According to International Patent Classification (IPC) or to both national classification and IPC</p>																					
<p><b>B. FIELDS SEARCHED</b>                  Minimum documentation searched (classification system followed by classification symbols)                  U.S. : 604/8, 521, 9, 264-66, 284-85, 294, 43; 623/1.15, 4.1, 1.1, 1.38, 1.42, 1.43; 128/898; 600/398, 433; 606/107                  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)                  Please See Continuation Sheet</p>																					
<p><b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b></p> <table border="1"> <thead> <tr> <th>Category *</th> <th>Citation of document, with indication, where appropriate, of the relevant passages</th> <th>Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td>X --- Y</td> <td>US 5,807,302 A (WANDEL) 15 September 1998, entire document.</td> <td>1-4, 7, 8, 12, 18-26, 28-32 ----- 5, 6, 9-11, 27</td> </tr> <tr> <td>X --- Y</td> <td>US 5,868,697 A (RICHTER et al.) 09 February 1999, entire document</td> <td>1-8 &amp; 18-27 ----- 9-12 &amp; 28-32</td> </tr> <tr> <td>X --- Y</td> <td>US 6,102,045 A (NORDQUIST et al.) 15 August 2000, entire document.</td> <td>1-8 ----- 9-12 &amp; 28-32</td> </tr> <tr> <td>Y</td> <td>US 6,168,575 B1 (SOLTANPOUR) 02 January 2001, entire document.</td> <td>12</td> </tr> <tr> <td>X,E --- Y,E</td> <td>US 6,464,724 B1 (LYNCH et al) 15 October 2002, entire document.</td> <td>1-8 &amp; 12 ----- 9-11 &amp; 28-32</td> </tr> </tbody> </table>		Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	X --- Y	US 5,807,302 A (WANDEL) 15 September 1998, entire document.	1-4, 7, 8, 12, 18-26, 28-32 ----- 5, 6, 9-11, 27	X --- Y	US 5,868,697 A (RICHTER et al.) 09 February 1999, entire document	1-8 & 18-27 ----- 9-12 & 28-32	X --- Y	US 6,102,045 A (NORDQUIST et al.) 15 August 2000, entire document.	1-8 ----- 9-12 & 28-32	Y	US 6,168,575 B1 (SOLTANPOUR) 02 January 2001, entire document.	12	X,E --- Y,E	US 6,464,724 B1 (LYNCH et al) 15 October 2002, entire document.	1-8 & 12 ----- 9-11 & 28-32		
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<p><input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C.      <input type="checkbox"/> See patent family annex.</p>																					
<p>* Special categories of cited documents:</p> <table border="0"> <tr> <td>"A"</td> <td>document defining the general state of the art which is not considered to be of particular relevance</td> <td>"T"</td> <td>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</td> </tr> <tr> <td>"E"</td> <td>earlier application or patent published on or after the international filing date</td> <td>"X"</td> <td>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</td> </tr> <tr> <td>"L"</td> <td>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)</td> <td>"Y"</td> <td>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</td> </tr> <tr> <td>"O"</td> <td>document referring to an oral disclosure, use, exhibition or other means</td> <td>"&amp;"</td> <td>document member of the same patent family</td> </tr> <tr> <td>"P"</td> <td>document published prior to the international filing date but later than the priority date claimed</td> <td></td> <td></td> </tr> </table>		"A"	document defining the general state of the art which is not considered to be of particular relevance	"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	"E"	earlier application or patent published on or after the international filing date	"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	"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)	"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	"O"	document referring to an oral disclosure, use, exhibition or other means	"&"	document member of the same patent family	"P"	document published prior to the international filing date but later than the priority date claimed		
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<p>Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703)305-3230</p>	<p>Authorized officer <i>Patricia M Bianco</i> Patricia M Bianco Telephone No. (703) 305-1482</p>																				

**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/US02/26100

**Continuation of B. FIELDS SEARCHED Item 3:**

EAST

glaucoma, shunt/tube/tubular member, aqueous chamber, Schlemm's canal, outer diameter (0.1-0.5mm), length (1-40mm), coating, drug, tissue growth inhibiting