

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
10 January 2002 (10.01.2002)

PCT

(10) International Publication Number  
**WO 02/002076 A3**

- (51) International Patent Classification<sup>7</sup>: **A61K 9/00**, 31/56, 31/57, 47/34 (74) Agents: **SHORTLE, Rebecca et al.**; Morrison & Foerster LLP, 755 Page Mill Road, Palo Alto, CA 94304-1018 (US).
- (21) International Application Number: PCT/US01/21173 (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (22) International Filing Date: 3 July 2001 (03.07.2001)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
60/216,236 5 July 2000 (05.07.2000) US  
09/693,008 20 October 2000 (20.10.2000) US
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
- (63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application:  
US 09/693,008 (CIP)  
Filed on 20 October 2000 (20.10.2000)
- 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
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- (88) Date of publication of the international search report:  
4 July 2002
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*



**WO 02/002076 A3**

(54) Title: METHODS FOR TREATING INFLAMMATION-MEDIATED CONDITIONS OF THE EYE

(57) Abstract: Methods for treating inflammation-mediated conditions of the eye are described, comprising: implanting into the vitreous of the eye of an individual a bioerodible implant comprising a steroidal anti-inflammatory agent and a bioerodible polymer, wherein the implant delivers the agent to the vitreous in an amount sufficient to reach a concentration equivalent to at least about 0.05 µg/ml dexamethasone within about 48 hours and maintains a concentration equivalent to at least about 0.03 µg/ml dexamethasone for at least about three weeks.

INTERNATIONAL SEARCH REPORT

Inte. onal Application No  
PCT/US 01/21173

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 A61K9/00 A61K31/56 A61K31/57 A61K47/34

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 7 A61K

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)

WPI Data, PAJ, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>WO 00 37056 A (OCULEX) 29 June 2000 (2000-06-29)</p> <p>claims examples tables page 4, line 23 -page 5, line 15 page 6, line 23 -page 7, line 29 page 9, line 29 -page 10, line 2 page 11, line 28 - line 29</p> <p style="text-align: center;">--- -/--</p>	<p>1-3, 7-10, 14-27, 31-34</p>

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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- \*A\* document defining the general state of the art which is not considered to be of particular relevance
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Date of the actual completion of the international search

23 April 2002

Date of mailing of the international search report

03/05/2002

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INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US 01/21173

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>EP 0 654 256 A (SANTEN PHARM. CO. LTD.,JP) 24 May 1995 (1995-05-24)</p> <p>claims 1,6-23,26 page 6, line 21</p>	<p>1,4,6,7, 9-11,14, 15, 21-23, 26-28, 31,32</p>
X	<p>US 4 863 457 A (D. A. LEE) 5 September 1989 (1989-09-05)</p> <p>claims column 4, line 31 -column 39 column 4, line 54 - line 55 column 6, line 45 - line 61</p>	<p>1-3, 7-10, 14-27, 31-34</p>
X	<p>EP 0 488 401 A (SENJU PHARM. CO. LTD.,JP) 3 June 1992 (1992-06-03) cited in the application</p> <p>claims examples 1-3 page 3, line 1 - line 25</p>	<p>1-3, 7-10, 14-27, 31-34</p>
X	<p>EP 0 430 539 A (VISIONEX) 5 June 1991 (1991-06-05) cited in the application</p> <p>claims tables page 3, line 16 - line 19 page 3, line 58 page 4, line 16 - line 18 page 5, line 47 - line 48</p>	<p>1-3, 7-10, 14-27, 31-34</p>
A	<p>WO 95 13765 A (OCULEX) 26 May 1995 (1995-05-26) cited in the application claims page 12, line 17 - line 20 examples</p>	<p>1-34</p>

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 01/21173

Patent document cited in search report	A	Publication date	Patent family member(s)	Publication date
WO 0037056	A	29-06-2000	US 6369116 B1	09-04-2002
			AU 2593900 A	12-07-2000
			WO 0037056 A2	29-06-2000
EP 654256	A	24-05-1995	AT 195065 T	15-08-2000
			DE 69425411 D1	07-09-2000
			DE 69425411 T2	08-02-2001
			DK 654256 T3	18-12-2000
			EP 0654256 A1	24-05-1995
			FI 945014 A	25-10-1994
			GR 3034526 T3	29-12-2000
			NO 944060 A	25-10-1994
			ES 2150487 T3	01-12-2000
			JP 3000187 B2	17-01-2000
			JP 6312943 A	08-11-1994
			WO 9418921 A1	01-09-1994
			PT 654256 T	29-12-2000
			US 5707643 A	13-01-1998
US 4863457	A	05-09-1989	NONE	
EP 488401	A	03-06-1992	CA 2056513 A1	31-05-1992
			EP 0488401 A1	03-06-1992
			JP 3116489 B2	11-12-2000
			JP 5017370 A	26-01-1993
			KR 185215 B1	01-05-1999
			US 5501856 A	26-03-1996
EP 430539	A	05-06-1991	US 5164188 A	17-11-1992
			AT 112677 T	15-10-1994
			CA 2030459 A1	23-05-1991
			DE 69013297 D1	17-11-1994
			DE 69013297 T2	27-04-1995
			EP 0430539 A2	05-06-1991
			ES 2064664 T3	01-02-1995
			JP 3170418 A	24-07-1991
			JP 3210328 B2	17-09-2001
WO 9513765	A	26-05-1995	US 5443505 A	22-08-1995
			AU 1092495 A	06-06-1995
			AU 731486 B2	29-03-2001
			AU 8522998 A	26-11-1998
			CA 2176145 A1	26-05-1995
			CN 1139375 A	01-01-1997
			EP 0729324 A1	04-09-1996
			JP 9505300 T	27-05-1997
			WO 9513765 A1	26-05-1995
			US 5766242 A	16-06-1998
			US 5824072 A	20-10-1998