

# PATENT TERM CALCULATOR

If this estimate is for either a **reexamination** or a **reissue** you must use the <u>original</u> **patent**'s information.

NOTE: If you wish to save this file for future reference, please retype the date in this calculated field.	MM	DD	YYYY
Today's date is:	4	30	2018
For what type of patent are you calculating a term?	utility		•
(NOTE: if a reexamination or reissue, base calculations on the original patent's information)	,		
	MM	DD	YYYY
What is the filing date of the patent (U.S. or 371 International Date, if applicable)?	7	2	1998
Does the patent claim any domestic benefit?	Yes	O No	
	MM	DD	YYYY
If the patent claims any domestic benefit, what is the Earliest Effective Filing Date?  **Domestic Benefit = Continuation, Continuation-in-Part, or Divisional**	5	6	1992
	MM	DD	YYYY
What is the grant date of the patent?	11	7	2000
How much 154 PTE is the patent entitled to (days)? If none, enter '0'	0	days of 15	54 PTE
How much 156 PTE is the patent entitled to (days)? If none, enter '0'	0	days of 15	6 PTE
Terminal Disclaimers  Does the patent have any terminal disclaimers?	Yes	O No	
5000 the patent have any terminal disordimers.	MM	DD	YYYY
If there are any terminal disclaimers, what is the earliest TD-based expiration date?	5	6	2012
Timely Payment of Maintenance Fees			
Timely Payment of Maintenance Fees  NOTE: For patents that are not designs or plants, maintenance fees must be paid on time to preserve  Maintenance fees are due three times during the life of a patent, and may be paid without surcharge 3 t  11 to 11.5 years after the date of issue and cannot be paid early. Maintenance fees may also be paid v  "grace periods" of 3.5 to 4 years, 7.5 to 8 years, and 11.5 to 12 years after the date of issue.  The dates below reflect the latest possible payment date, including grace periods.	o 3.5 years, vith a surcha	7 to 7.5 ye arge during	the
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NOTE: For patents that are not designs or plants, maintenance fees must be paid on time to preserve Maintenance fees are due three times during the life of a patent, and may be paid without surcharge 3 the 11 to 11.5 years after the date of issue and cannot be paid early. Maintenance fees may also be paid virgrace periods" of 3.5 to 4 years, 7.5 to 8 years, and 11.5 to 12 years after the date of issue.  The dates below reflect the latest possible payment date, including grace periods.  Your first Maintenance Fee should be paid no later than 4 years after issue:  Did you pay this fee?  Your second Maintenance Fee should be paid no later than 8 years after issue:  Did you pay this fee?  Your third Maintenance Fee should be paid no later than 12 years after issue:  Did you pay this fee?  NOTICE: This calculator is only an educational tool. It was developed based on assumptions that may or case. It does not provide a determination of any kind by USPTO. It is not intended to, and does not, create substantive or procedural, enforceable at law or in equity by a party against the United States, its departments.	MM  11  yes  MM  11  yes  MM  11  yes  MM  21  yes  MM  22  MM  31  yes  MM  41  yes  MM  41  yes	7 to 7.5 yes	2004
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 ${\tt ERROR\ CONTROL\ SUMMARY\ -\ The\ above\ calculation\ is\ based\ upon\ the\ following\ date\ information:}$ 

Date Filed 7/2/1998
Earliest Effective Filing Date 5/6/1992
Grant Date 11/7/2000
Terminally Disclaimed to 5/6/2012
Combined days of 35 USC 154 PTA, 35 USC 154 PTE and 35 USC 156 PTE additions. 0
Expiration due to Missed Maintenance Fee Payment

Patent Number: 6143799
Application Number: 09/109453

Fxhihit 1104





## US005342620A

# United States Patent [19]

## Chowhan

[11] Patent Number:

5,342,620

[45] Date of Patent:

Aug. 30, 1994

[54]	USE OF BORATE-POLYOL COMPLEXES IN
	OPHTHALMIC COMPOSITIONS

[75] Inventor: Masood Chowhan, Arlington, Tex.

[73] Assignee: Alcon Laboratories, Inc., Fort

Worth, Tex.

[21] Appl. No.: 118,833

[22] Filed: Sep. 7, 1993

## Related U.S. Application Data

[63] Continuation of Ser. No. 879,435, May 6, 1992, abandoned.

### [56] References Cited

## U.S. PATENT DOCUMENTS

#### FOREIGN PATENT DOCUMENTS

0109561A1 5/1984 European Pat. Off. . 0436726A1 7/1991 European Pat. Off. . 2230358 12/1974 France .

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Rakow, P. L. Contact Lens Forum (Jun., 1988), 41-46. Okada, T. J. Chromatography, 403:27-33 (1987). Sciarra, J. et al., J. Am. Pharm. Assoc., 49(2):115-117 (1960).

Morawetz, H., "Macromolecules In Solution," John Wiley & Sons, Inc., New York: 1974, pp. 402-404. Gilman, H. et al. (eds.), "Organic Chemistry" vol. I, John Wiley & Sons, Inc. New York: 1950, pp. 432-433. Gilman, H. et al. (eds.), "Organic Chemistry" vol. II, John Wiley & Sons, Inc., New York: 1950, pp. 1540-1542, 1588, 1589, 1606-1610.

Primary Examiner—Thurman K. Page Assistant Examiner—Amy Hulina Attorney, Agent, or Firm—Julie J. L. Cheng

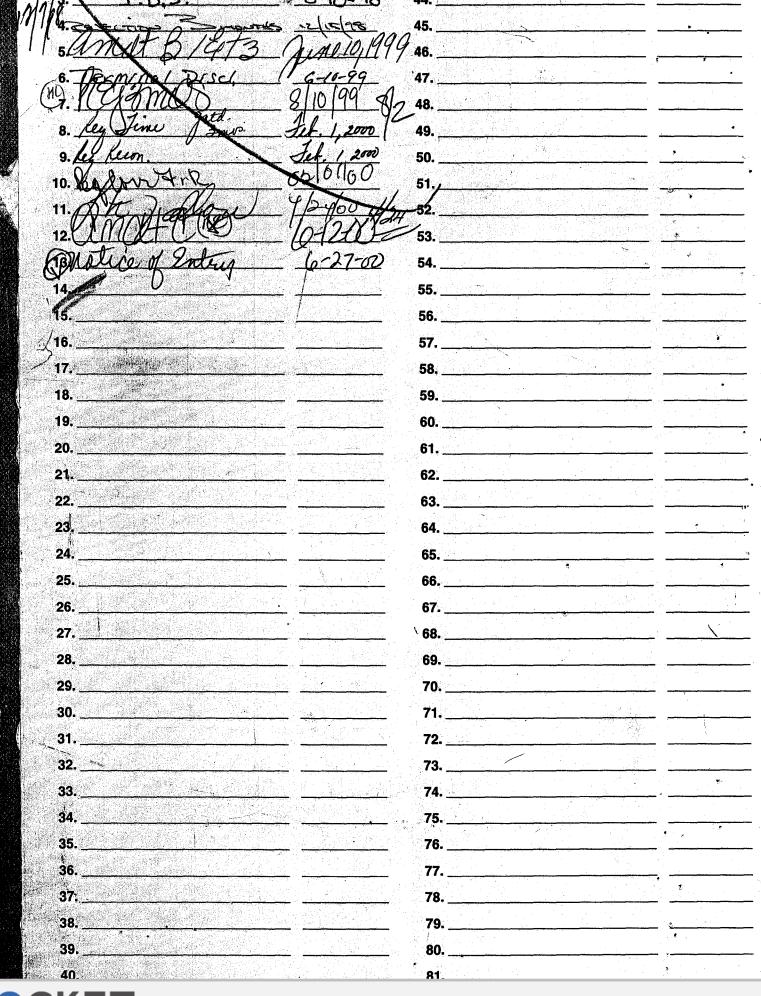
### [57] ABSTRACT

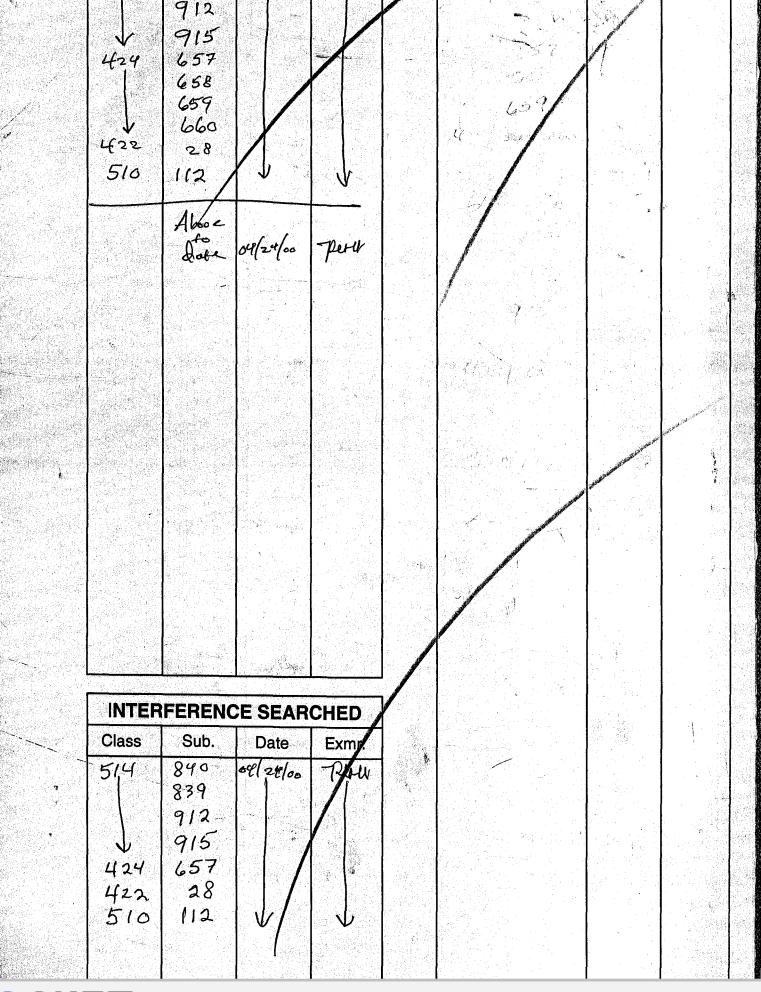
Aqueous ophthalmic compositions containing watersoluble borate-polyol complexes are useful in aqueous ophthalmic compositions containing polyvinyl alcohol. These compositions provide the benefits of a borate buffering system, such as enhanced antimicrobial activity, without the problems associated with the use of borate and pol, such as formation of borate-polyvinyl alcohol complexes which are water-insoluble.

15 Claims, No Drawings



		RED AND						
ORIGINAL STATES				CLASSIFICATION CROSS, REFERENCE(S)				
CLASS	SUBCLASS	CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)					
514	8.89	422	28/					
INTERNATIONAL	CLASSIFICATION	424	1857					
AGIR	A/00	510	112					
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a) The term of the subsequent to has been disclaimed	(date)	(Assistant Examin	er)	(Date)	NOTICE L	CE OF ALL	OWANCE	
b) The term of the not extend beyond to of U.S Patent, No.	he expiration date	ROBERT H. PRIMARY E	XAMINER		ISSUE FEE Amount Due			
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c) The terminal this patent have been		A.egai Instruments Ex	arr/iner)	5/5/00) (Date)		53		
WARNING:		. Unauthorized disclo			***************************************			







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