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(54) Title: SYNERGISTIC ANTIMICROBIAL OPHTHALMIC AND DERMATOLOGIC PREPARATIONS CONTAINING CHLORITE AND HYDROGEN PEROXIDE

(57) Abstract: An anti-microbial liquid ophthalmic composition for direct application onto an eye of a living being. The composition includes from about 0.02 wt. % to about 0.20 wt. % chlorite compound and from about 0.005 wt. % to about 0.01 wt. % peroxy compound, at a pH between about 7.0 and 7.8. Preferably, the chlorite compound is a metal chlorite where the metal is chosen from the group consisting of sodium, potassium, calcium, and magnesium, while the peroxy compound is hydrogen peroxide. Also included are methods for treating an eye infection through application of the composition to the eye, and for cleansing a contact lens in place on an eye through application of the composition to the lens.



WO 03/009802 A3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/19951

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A 61K 7/20 A 61K 33/40 a 61K 33/14

US CL : 424/53 424/616 424/661

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)

U.S. : 424/53 424/616 424/661

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)
West 2**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5736165 A (RIPLEY et al) 07 April 1998 (See claims 5, 13, column 5, lines 16 to 19: sodium chlorite in eye drops in eye).	17 to 24
Y	US 5607698 A (MARTIN et al) 04 March 1997 (hydrogen peroxide preservative in eye drops in eye See: claims 1, 2, 16, 18, 25, 26:).	17 to 24
Y	US 5639481 A (KESSLER et al) 17 June 1997 (Hydrogen peroxide in eye, claim 1).	17 to 24
A	US 5145644 A (PARK et al) 08 September 1992 (residual hydrogen peroxide kills bacteria and fungi but causes irritation, burning and/or trauma to the eye, column 1, lines	A
X	US 5782992 A (FRANGIONE) 21 July 1998 (sodium chloride and peroxide, claims 6, 7, column 5, line 57) (for contact lens).	1 to 16 ----- 25 to 32
X	US 5330752 A (PARK et al) 19 July 1994 (sodium chlorite and peroxide, claims 5, 6, 13, 14, for contact lens).	1 to 16 ----- 25 to 32



Further documents are listed in the continuation of Box C.



See patent family annex.

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C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5270002 A (NEFF et al) 14 December 1993 (sodium chlorite and hydrogen peroxide for contact lens (claims 1, 6 and column 4, lines 40 to 43).	1 to 16 ----- 25 to 32
X	US 4574084 A (BERGER) 04 March 1986 (hydrogen peroxide and sodium chlorite biocides for affected topical skin disease sites (claim 13, Example column 9, lines 11 to 35 column 7, line 1 to column 8, line 58).	33 to 42
X,E	US 6096328 A (SAGEL et al) 01 August 2000 (claims 5 & 20, combination of hydrogen peroxide and sodium chloride antimicrobials for oral site oralcare).	33 to 42