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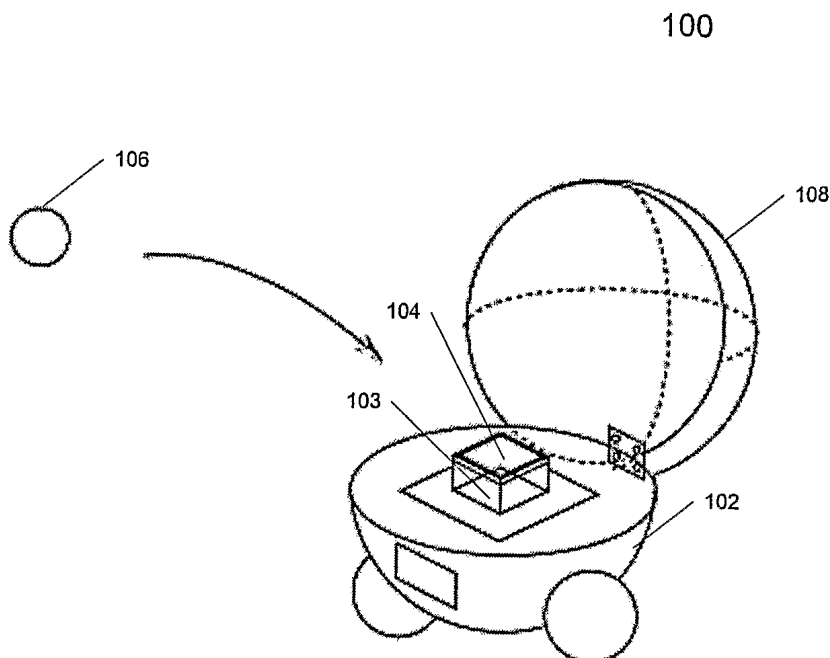
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(54) Title: SYSTEMS AND METHODS FOR MEASURING TEAR FILM OSMOLARITY



(57) Abstract: An osmolarity measuring system is configured to receive a contact lens (106) in a measurement chamber (104). The measurement chamber (104) includes a volume of fluid and a series of electrodes (302, 304, 310, 312) configured to measure the electrical properties of the fluid. A processing device correlates the measured electrical properties with an osmolarity measurement. Further, the processing device is configured to track trends in stored osmolarity measurements and alert the user to take an action, including the cessation or alteration of product use.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/39128

A. CLASSIFICATION OF SUBJECT MATTER

IPC: G01R 27/08(2006.01)

USPC: 324/691,692,693

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. : 324/691, 692, 693

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,143,080 (YORK) 01 September 1992 (01.09.1992), whole document	75-77
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Y		78-83
Y	US 4,123,701 (JOSEFSEN et al.) 31 October 1978 (31.10.1978), whole document	78-83
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A		1-77, 84-101
Y	OGASAWARA et al., Electrical conductivity of tear fluid in healthy persons and keraconjunctivitis sicca patients measured by a flexible conductimetric sensor, Graef's Arch.	83
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A	Clin. Exp. Ophthalmol, May 1996 Pages 542-546	1-82, 84-101

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

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"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
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"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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