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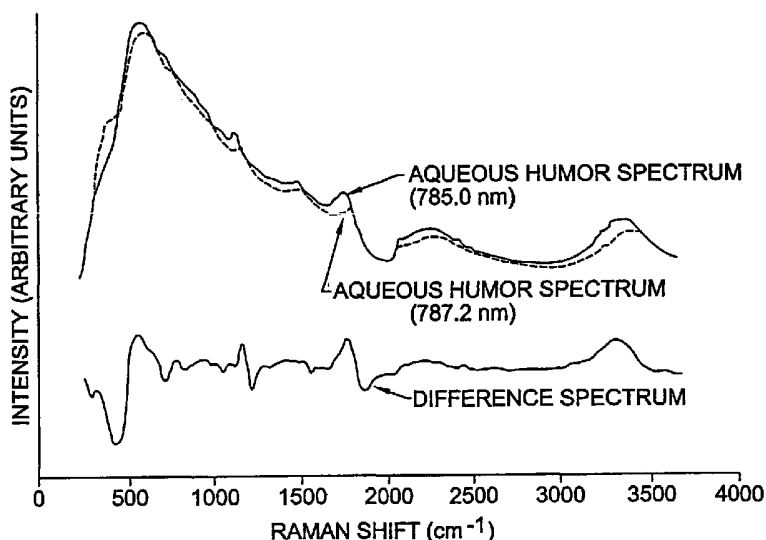
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[Continued on next page]

(54) Title: MEASUREMENTS IN A SUBJECT USING RESONANT RAMAN SIGNALS



(57) Abstract: Methods and systems of the present invention identify the presence of and/or the concentration of a selected analyte in a subject by: (a) illuminating a selected region of the eye of a subject with an optical excitation beam, wherein the excitation beam wavelength is selected to generate a resonant Raman spectrum of the selected analyte with a signal strength that is at least 100 times greater than Raman spectrums generated by non-resonant wavelengths and/or relative to signals of normal constituents present in the selected region of the eye; (b) detecting a resonant Raman spectrum corresponding to the selected illuminated region of the eye; and (c) identifying the presence, absence and/or the concentration of the selected analyte in the subject based on said detecting step. The apparatus may also be configured to be able to obtain biometric data of the eye to identify (confirm the identity of) the subject.

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— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

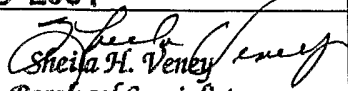
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B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S. : 600/318, 319, 314; 705/2; 356/301 Documentation searched other than minimum documentation to the extent that such documents are included 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.
Y Y Y	US 5,882,301 A (YAOSHIDA) 16 March 1999 (16.03.1999), see the entire document. US 2001/0032098 A1 (KULKARNI) 18 October 2001 (18.10.2001), see paragraphs 26 - 30 and 36. US 6,205,354 B1 (GELLERMAN et al) 20 March 2001 (20.03.2001), column 2, lines 42 - 67 and column 5, lines 38 - 50.	1-13, 15-33 1-13, 15-33 3, 6-11, 15
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
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Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230	Authorized officer Eric F Winakur Telephone No. 571/272-2975 <div style="text-align: right;">  Sheila H. Veney Paralegal Specialist Tech. Center 3700 </div>	