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(54) Title: METHOD AND DEVICE FOR IDENTIFYING AN UNKNOWN BIOLOGICAL SUBSTANCE

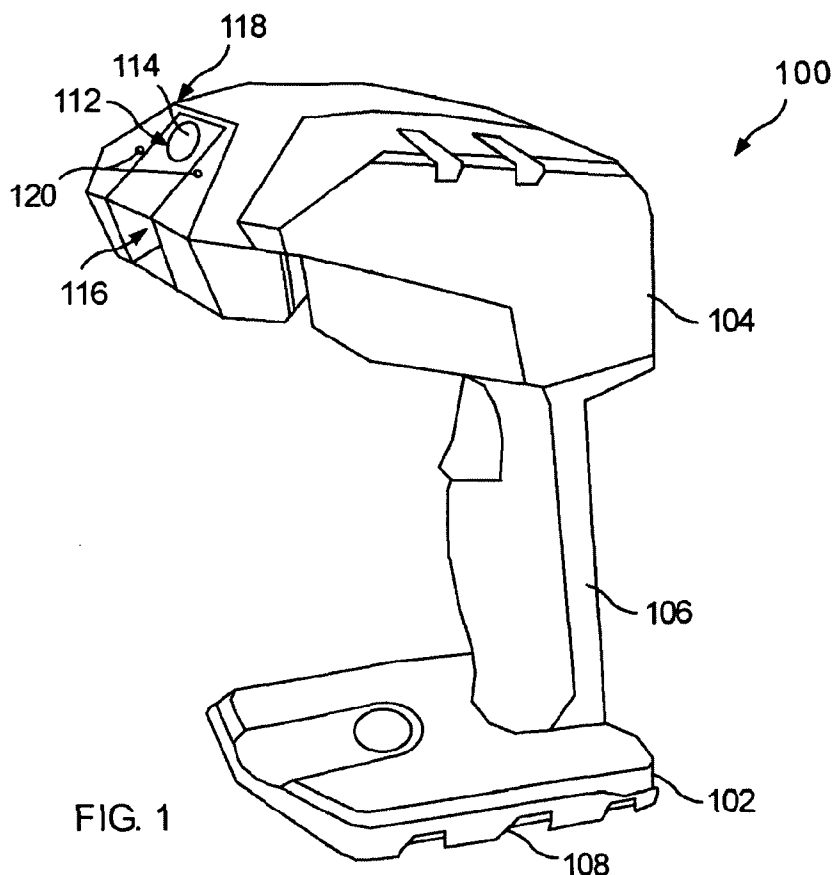


FIG. 1

(57) Abstract: A device for identifying an unknown substance includes an optical source configured to direct a laser excitation beam at the unknown substance. A detector is configured to detect scattered light from the unknown substance and generate at least one signal representative of a scattering spectrum corresponding to at least one chemical within the unknown substance. A microprocessor is in signal communication with the detector and configured to generate a pattern representative of the at least one chemical in response to the at least one signal received from the detector to identify the chemical composition of the unknown substance. The device is configured to complete a bioassay to identify a biological nature of the unknown substance.



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B. FIELDS SEARCHED

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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)

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

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A	US 2007/081156 A1 (TREADO PATRICK J [US] ET AL) 12 April 2007 (2007-04-12) abstract; figures 11,14,17	1-21
A	US 2006/275310 A1 (DWARAKANATH SULATHA [US] ET AL) 7 December 2006 (2006-12-07) abstract; figure 10	1-21
A	US 2007/058165 A1 (MONDELLO FRANK J [US] MONDELLO FRANK JOHN [US]) 15 March 2007 (2007-03-15) abstract; figures 3-5	1-21
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