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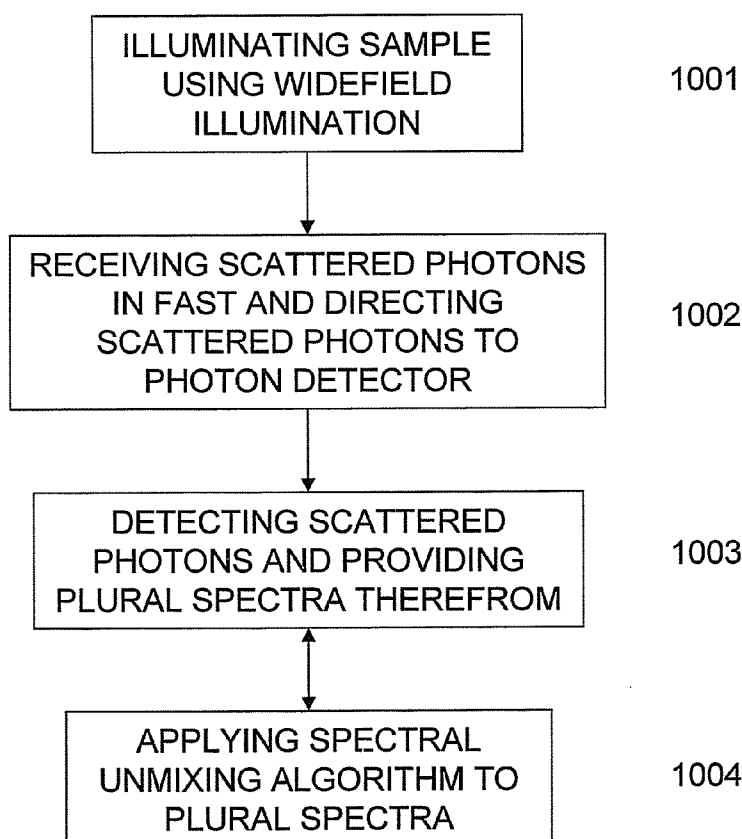
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[Continued on next page]

(54) Title: SYSTEM AND METHOD FOR FIBER ARRAY SPECTRAL TRANSLATOR BASED POLYMORPH SCREENING



(57) Abstract: The present disclosure describes methods and systems that combine Raman spectroscopy performed in a manner that utilizes one or more of widefield illumination, simultaneous multipoint Raman spectral acquisition, and spectral unmixing for the purpose of high throughput polymorph screening. Features of this methodology include: (a) high throughput polymorph screening to reduce crystal orientation effects on Raman spectra; (b) in- well multi-polymorph screening using increased statistical sampling; and (c) multipoint spectral sampling to enable spectral unmixing.

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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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 practicable, search terms used)

MicroPatent, IEEE, Google Scholar

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,717,668 B2 (TREADO et al) 06 April 2004 (06.04.2004) entire document	1-73
Y	WO 2005/019807 A1 (COLE) 03 March 2005 (03.03.2005) entire document	1-73
Y	Applicant's Admitted Prior Art, paragraphs 12 and 58	8-10, 18-20, 30-32, 41-43, 53-54, 67-68
A	6,917,423 B2 (GARDNER JR et al) 12 July 2005 (12.07.2005) entire document	1-73
A	US 6,977,729 B2 (MARQUARDT et al) 20 December 2005 (20.12.2005) entire document	1-73

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