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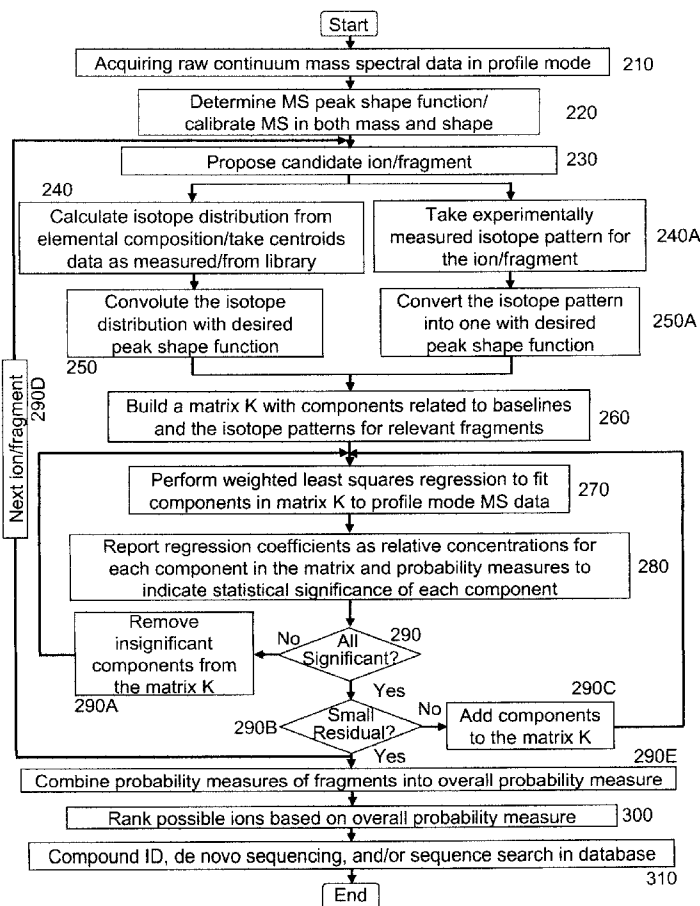
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[Continued on next page]

(54) Title: ANALYZING MASS SPECTRAL DATA



(57) Abstract: A method for analyzing data from a mass spectrometer comprising obtaining calibrated continuum spectral data by processing raw spectral data (210); obtaining library spectral data which has been processed to form calibrated library data (240); and performing a least squares fit, preferably using matrix operations (270) (equation 1), between the calibrated continuum spectral data and the calibrated library data to determine concentrations of components in a sample (280) which generated the raw spectral data. A mass spectrometer system that operates in accordance with the method, a data library of transformed mass spectra, and a method for producing the data library.

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FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL,
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A. CLASSIFICATION OF SUBJECT MATTER
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B. FIELDS SEARCHED
 Minimum documentation searched (classification system followed by classification symbols)
 U.S. : 250/282,287,285,288

 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)
 EAST, Google

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 7,199,363 B2 (Bateman et al.) 3 April 2007, abstract, claim 1	1-63
A	US 2006/0249669 A1 (Bern) 9 November 2006, abstract, paras 0026 to 0031, 0040 to 0095	1-63

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

* Special categories of cited documents:	
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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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