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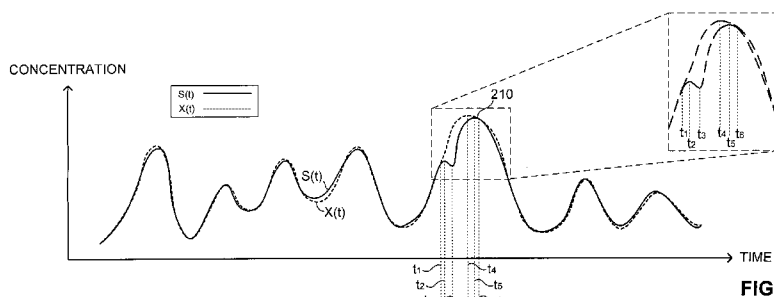


FIG. 2B

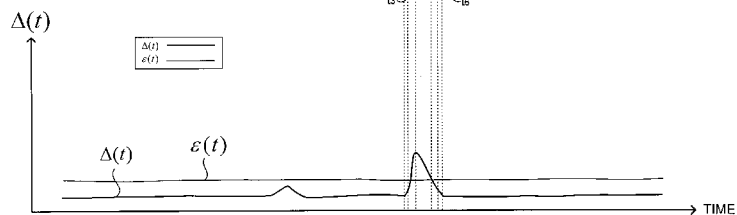


FIG. 2C

(57) **Abstract:** Method employing gas chromatography for determining a measure of match between chromatographic data respective of a sample and reference data, the method includes the procedures of acquiring the chromatographic data, determining a plurality of parameters in a modeling function so as to substantially fit the modeling function to the chromatographic data, the modeling function defined as a sum of a linear combination of probability distribution functions, and estimating the measure of match according to a degree of fitness between the modeling function and the chromatographic data.



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C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	VAN STOKKUM I H M ET AL: "Global analysis of multiple gas chromatography-mass spectrometry (GC/MS) data sets: A method for resolution of co-eluting components with comparison to MCR-ALS", CHEMOMETRICS AND INTELLIGENT LABORATORY SYSTEMS, ELSEVIER SCIENCE PUBLISHERS B.V. AMSTERDAM, NL, vol. 95, no. 2, 15 February 2009 (2009-02-15) , pages 150-163, XP025869886, ISSN: 0169-7439, DOI : DOI : 10. 1016/J .CHEMOLAB.2008. 10.004 [retrieved on 2008-10-30] * abstract page 151, column 1, line 29 - line 36 page 151, paragraph 2.1 page 152, paragraph 2.5 - page 153, paragraph 2.6 -/- -	1,37
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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p align="center">-----</p> <p>DI MARCO V B ET AL: "Mathematical functions for the representation of chromatographic peaks", JOURNAL OF CHROMATOGRAPHY, ELSEVIER SCIENCE PUBLISHERS B.V, NL, vol . 931 , no. 1-2 , 5 October 2001 (2001-10-05) , pages 1-30, XP004308415, ISSN : 0021-9673, DOI : DOI : 10. 1016/S0021-9673(01)01136-0 * abstract page 2, column 1, line 16 - line 26</p>	1,37
X	<p align="center">-----</p> <p>US 2007/211928 AI (WENG LEE [US] ET AL) 13 September 2007 (2007-09-13) * abstract paragraph [0029] paragraph [0141] - paragraph [0146] figures 1,5A,5AE,5AF</p>	1,37
E	<p align="center">-----</p> <p>WO 2010/141272 AI (THERMO FINNIGAN LLC [US]; WRIGHT DAVID A [US]) 9 December 2010 (2010-12-09) * abstract paragraph [0075] - paragraph [0077] paragraphs [0095] , [0099] , [0120] paragraphs [0152] - [0155] figures 1,17</p> <p align="center">-----</p>	1,37

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Information on patent family members

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