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(71) Applicant *(for all designated States except US)*: **OXFORD GLYCOSCIENCES (UK) LTD** [GB/GB]; Attn: Mary Gadsden, The Forum, 86 Milton Park, Abingdon, Oxfordshire OX14 4RY (GB).

(72) Inventors; and

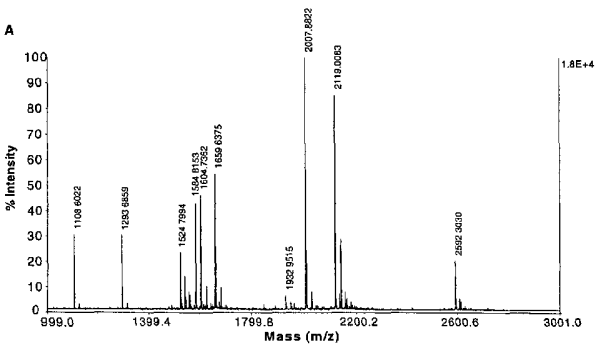
(75) Inventors/Applicants *(for US only)*: **SOLOVIEV, Mikhail** [GB/GB]; The Forum, 86 Milton Park, Abingdon, Oxfordshire OX14 4RY (GB). **TERRETT, Jonathan, Alexander** [GB/GB]; Oxford GlycoSciences (UK) Ltd, The Forum, 86 Milton Park, Abingdon, Oxfordshire OX14 4RY (GB).

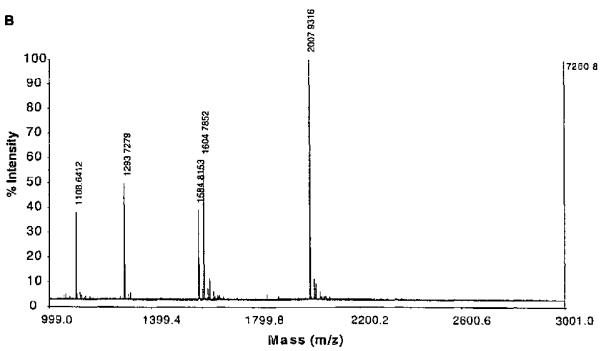
(74) Agent: **BLAKEY, Alison, Jane**; Oxford GlycoSciences (UK) Ltd, The Forum, 86 Milton Park, Abingdon, Oxfordshire OX14 4RY (GB).

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[Continued on next page]

(54) Title: A METHOD OF PROTEIN ANALYSIS





(57) Abstract: The invention provides a method for the analysis of proteins, in particular complex mixtures of proteins such as those in a biological samples, comprising: a) treating the protein mixture to produce a mixture of peptides; b) contacting the mixture of peptides with at least one amino acid filtering agent that binds to the side chain of an amino acid; c) depleting the micture of those peptides that bind to the filtering agent; d) identifying one or more peptides remaining in the depleted mixture. The method facilitates analysis by decreasing the complexity of a mixture prior to the application of an analytical technique such as mass spectrometry.

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A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G01N33/68 C07K1/22

According to International Patent Classification (IPC) or to both national classification and IPC

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 practical, search terms used)
MEDLINE, BIOSIS, EMBASE, EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GOSHE M B ET AL: "Phosphoprotein isotope-coded affinity tag approach for isolating and quantitating phosphopeptides in proteome-wide analyses" ANALYTICAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY. COLUMBUS, US, vol. 73, no. 11, 1 June 2001 (2001-06-01), pages 2578-2586, XP002216845 ISSN: 0003-2700 cited in the application abstract figure 2 ---	1-15
A	DE 43 44 425 A (SHIMADZU CORP) 30 June 1994 (1994-06-30) column 3, line 24 -column 5, paragraph 1 --- -/--	1-15

[X] Further documents are listed in the continuation of box C.

[X] Patent family members are listed in annex.

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Date of the actual completion of the international search	Date of mailing of the international search report
9 April 2003	16/04/2003

Name and mailing address of the ISA	Authorized officer
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Int ...nal Application No
PCT/GB 02/04364

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication,where appropriate, of the relevant passages	Relevant to claim No.
A	GENG M ET AL: "Signature-peptide approach to detecting proteins in complex mixtures" JOURNAL OF CHROMATOGRAPHY, ELSEVIER SCIENCE PUBLISHERS B.V. AMSTERDAM, NL, vol. 870, no. 1-2, February 2000 (2000-02), pages 295-313, XP004187331 ISSN: 0021-9673 abstract	1-15
A	JI J ET AL: "Strategy for qualitative and quantitative analysis in proteomics based on signature peptides" JOURNAL OF CHROMATOGRAPHY. BIOMEDICAL APPLICATIONS, ELSEVIER, AMSTERDAM, NL, vol. 745, no. 1, 4 August 2000 (2000-08-04), pages 197-210, XP004215299 ISSN: 0378-4347 abstract	1-15

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		JP 6189784 A	12-07-1994
		DE 4344425 A1	30-06-1994