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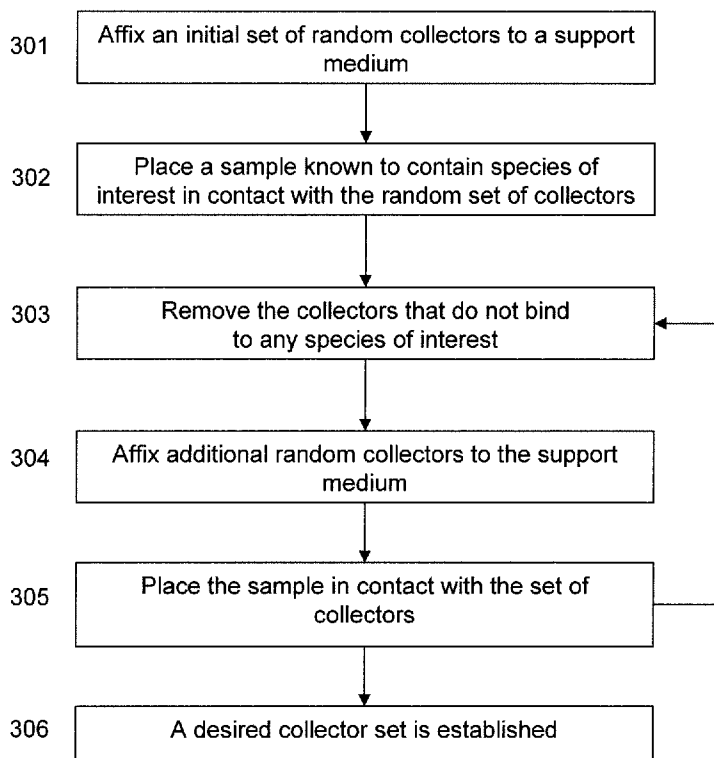
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[Continued on next page]

(54) Title: POSITIVE SELECTION OF SERUM PROTEINS FOR PROTEOMIC ANALYSIS



(57) Abstract: This invention relates to methods and kits for positive selection of species of interest based on peptide/protein sequence from a biological sample. The species of interest may be proteins and/or peptides of interest which may be placed through a mass spectrometer to obtain a blood peptide/protein signature. The blood peptide/protein signature may be used in proteomic analysis. The techniques include but are not limited to the use of collectors comprising nucleic acid molecules to extract a composition that has a lower concentration of a high abundance species of interest from a sample. This limits the level of influence that any species may have on the results of a mass spectra.

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A. CLASSIFICATION OF SUBJECT MATTER

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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)
U.S. : 422/61,68.1,101; 435/4,6,7.1,287.1,287.2; 436/501,518,175,177,178

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,804,384 (MULLER et al) 8 September 1998 (08.08.1998), Figure 1; column 1, lines 45-67; column 2, lines 1-67; column 3, lines 1-26; column 4, lines 24-45; column 5, lines 55-60; column 6, lines 15-36; column 9, lines 64-67; column 10, lines 1-52; and column 11, lines 5-9).	1-36
Y	US 2003/0003599 A1 (WAGNER et al) 2 January 2003 (02.01.2003), Figure 1; and paragraphs [0012]-[0015], [0078], [0189]-[0194], and [0201].	1-36
A	US 2006/0134712 A1 (STROMGREN et al) 22 June 2006 (22.06.2006), paragraphs [0007], [0008], [0018], [0021], [0027], [0028], and Example 1.	1-36
A	US 6,551,788 B1 (BELL) 22 April 2003 (22.04.2003), column 3, lines 16-54; column 4, lines 6-27; column 8, lines 60-67; and column 9, lines 1-20.	1-36

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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"O" document referring to an oral disclosure, use, exhibition or other means		
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