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TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
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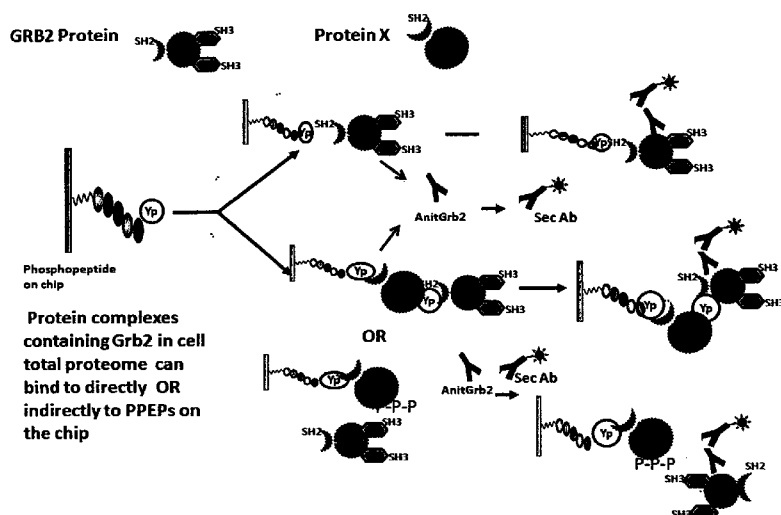
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[Continued on next page]

(54) **Title:** PEPTIDE CAPTURE AND CHARACTERIZATION

FIGURE 9



(57) **Abstract:** The invention relates to the measurement and profiling of proteins including phosphoproteins from cells in particular the measurement and profiling of phosphoproteins involved in cancer.



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A. CLASSIFICATION OF SUBJECT MATTER**G01N 33/68(2006.01)i, G01N 33/574(2006.01)i**

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)

G01N 33/68; C40B 30/00; G01N 33/53; C12Q 1/68; C40B 50/18

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: phosphoprotein, phosphorylation state, cancer cell, peptide microarray, microfluidic device, etc.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATWA, T. H. et al., 'A novel phosphoprotein analysis scheme for assessing changes in premalignant and malignant breast cell lines using 2D liquid separations, protein microarrays and tandem mass spectrometry', Proteomics Clin. Appl., 2008, Vol.3, No.1, pp.51-66, ISSN 1862-8354.	1,6,10
A	See figure 3; page 3; abstract.	2-5,7-9,11-14
A	WO 2011-057347 A1 (TGR BIOSCIENCES PTY LTD) 19 May 2011 See claims 1, 9, 31, and 33.	1-14
A	PAL, M. et al., 'Differential phosphoprotein mapping in cancer cells using protein microarrays produced from 2-D liquid fractionation', Anal. Chem., 01 February 2006, Vol.78, No.3, pp.702-710, ISSN 0003-2700. See pages 703, 707 and 710; abstract.	1-14
A	US 2008-0280771 A1 (LUBMAN, DAVID M. et al.) 13 November 2008 See claims 1, 2, 7, and 8.	1-14



Further documents are listed in the continuation of Box C.



See patent family annex.

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WO 2011-057347 A1

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US 2012-0270207 A1

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WO 2012-129611 A1

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US 2008-0280771 A1

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None