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(54) Title: CARBON COATED SILICA PARTICLES AND METHODS OF MAKING SAME

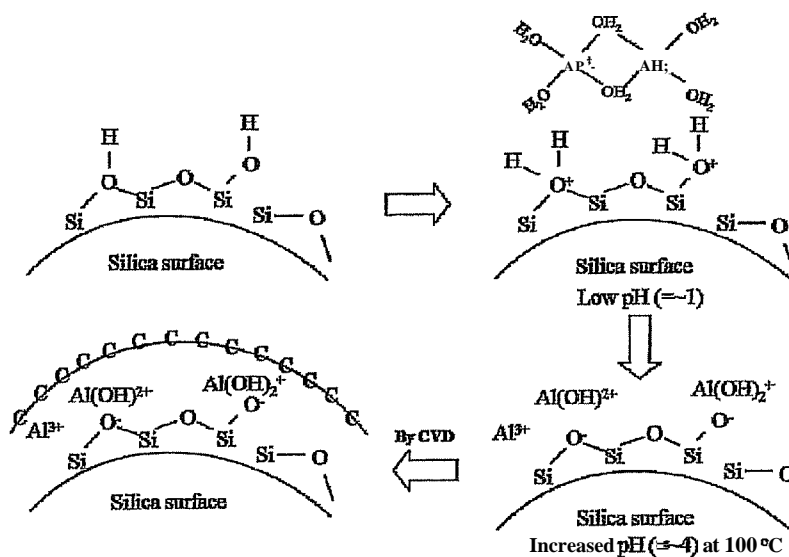


Fig. 1

(57) Abstract: Methods using homogeneous precipitation of a metal on a surface of a particle to prepare silica particles having the metal adsorbed thereon are disclosed herein. In certain embodiments, the silica particles having the metal adsorbed thereon can be used to prepare carbon coated silica particles. The carbon coated silica particles can be useful in a wide variety of applications including, for example, for use as sorbents in chromatography.

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## INTERNATIONAL SEARCH REPORT

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

**B. FIELDS SEARCHED**

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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) &amp; Keywords: silica, metal cation, pH, aluminum cation, adsorption, layer, carbon, deposition

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2008-0213189 A1 (JIN HYUNG LEE et al.) 04 September 2008 See abstract, paragraphs [0033]-[0045], [0078], [0086]-[0091], [0123]	1-3,23-25
A	US 05712037 A (MARC A. ANDERSON et al.) 27 January 1998 See abstract, claims 1-6	1-3,23-25
A	US 05368833 A (HANS E. JOHANSSON et al.) 29 November 1994 See abstract, claims 1-6	1-3,23-25
A	US 2005-0151278 A1 (MICHAEL LEFENFELD et al.) 14 July 2005 See abstract, claim 1	1-3,23-25
A	US 05254262 A (ERIC F. FUNKENBUSCH et al.) 19 October 1993 See abstract, claim 1	1-3,23-25
PX	Journal of Chromatography A, 1218 (2011) 1359-1366 (CHANGYUB PAEK et al.) 05 January 2011 See the whole document	1-3,23-25

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

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Information on patent family members

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