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(71) Applicant: CABOT CORPORATION [US/US]; 75 State Street, Boston, MA 02109-1806 (US).

(72) Inventors: BOES, Ralph, Ulrich; 31 Highland Street, West Concord, MA 01742 (US). BELMONT, James, A.; 8 Conant Street, Acton, MA 01720 (US). KAUL, David, J.; 13 Wyndcliff Road, Acton, MA 01720 (US). SMITH, Douglas, M.; 1412 Marquette Place, NE, Albuquerque, NM 87106 (US). ACKERMAN, William, C.; 4809 Choctaw Trail, NW, Albuquerque, NM 87120 (US).

(74) Agent: CHALETSKY, Lawrence, A.; Cabot Corporation, 157 Concord Road, P.O. Box 7001, Billerica, MA 01821-7001 (US).

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(54) Title: GEL COMPOSITION CONTAINING CARBONACEOUS COMPOUND

(57) Abstract

New gel compositions which comprise a carbonaceous component attached to a gel component. Preferably, the carbonaceous component is selected from the group consisting of: carbon blacks, carbon fibers, activated carbons and graphitic carbons; and the gel component is selected from the group consisting of: metal oxide gels and polymeric gels. Also disclosed are new gel compositions comprising: a gel component and a carbon black product having attached at least one organic group, the organic group comprising: a) at least one aromatic group, and b) at least one ionic group, at least one ionizable group, or a mixture of an ionic group and an ionizable group, wherein at least one aromatic group of the organic group is directly attached to the carbon black. Further disclosed are new gel compositions comprising: a gel component and a carbon black product having attached at least one organic group, the organic group comprising: a) at least one C_1-C_{12}alkyl group, and b) at least one ionic group, at least one ionizable group, or a mixture of an ionic group and an ionizable group, wherein at least one alkyl group of the organic group is directly attached to the carbon black. Uses for the gel compositions are also disclosed.