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(54) Title: SORBENT FOR REMOVAL OF IONS FROM LIQUID STREAMS AND METHOD OF MAKING THE SAME

(57) Abstract: A sorption media with a high capacity to remove heavy metals, lead, and mercury, in particular when synthesized from a titanium source that contains sulfur, such as black liquor or titanyl sulfate (TiOSO<sub>4</sub>). The use of sulfur provides a higher than expected capacity for Pb and/or Hg. A Group 1 and/or Group 2 metal-titanosilicate is employed, having a Ti to Si molar ratio of 0.5-2, a pore volume of at least less than or equal to 0.25 cc/g.