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Naftz et al.

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- (54) **AQUIFER REMEDIATION BARRIER FOR REMOVAL OF INORGANIC CONTAMINANTS**
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- (52) U.S. Cl. .... **210/170; 210/747; 210/912; 405/263; 588/15; 588/17; 588/18; 588/20**
- (58) **Field of Search** ..... 210/170, 206, 210/209, 747, 717, 723, 912, 901; 405/128, 263; 588/1, 2, 13, 15, 17, 18, 20

(57) **ABSTRACT**

A permeable barrier for decontaminating groundwater having two distinct components for increasing contaminant removal. Preferably, the barrier material is a mixture or distinct layers of bone-char phosphate material and iron oxide pellets. The barrier material can be incorporated as part of a shallow trenching decontamination system, or incorporated in a non-pumping well, or array of non-pumping wells, as part of a deep underground decontamination system. The system can be used for removing, among other things, a radionuclide, such as uranium, from water.

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**12 Claims, 3 Drawing Sheets**

**COGEMA (WYOMING) RESULTS**

**TREATMENT WITH BONE CHARCOAL AND IRON OXIDE**

