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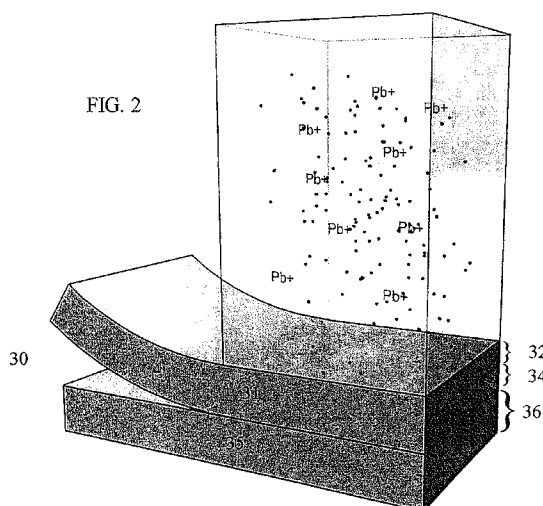
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(54) Title: USES OF FIBRILLATED NANOFIBERS AND THE REMOVAL OF SOLUBLE, COLLOIDAL, AND INSOLUBLE PARTICLES FROM A FLUID



(57) Abstract: A filter for removing soluble, colloidal, and insoluble particles from a fluid, including lead using a first filter media for filtering soluble material from the fluid, a second filter media, adjacent and in fluid communication with, the first filter media, for filtering soluble material from said fluid, wherein the first and second filter media create a physical non-soluble particle barrier at their interface for capturing non-soluble particles, that when retained at the interface, become soluble over time in the fluid, and are subsequently removed by the second filter media. At least one of the filter media can be fibrillated nanofibers that are loaded with finely subdivided media of powdered ion exchange resins. A third filter media may be placed between the first and second filter media to enhance capturing and dissolving the physical non-soluble particles.

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