

# Selective Recovery of Arsenic From Aqueous Solutions with Hydrated Titanium Dioxide.

## s.n - Titanium Dioxide Patents and Patent Applications (Class 423/610)



### Description: -

-Selective Recovery of Arsenic From Aqueous Solutions with Hydrated Titanium Dioxide.

Information circular (United States. Bureau of Mines) -- 7914  
Information circular (United States. Bureau of Mines) -- 6346  
Report of investigations (United States. Bureau of Mines) --  
8756Selective Recovery of Arsenic From Aqueous Solutions with  
Hydrated Titanium Dioxide.

Notes: 1  
This edition was published in 1982



Filesize: 51.31 MB

Tags: #US8454816B1

### Composition for removing arsenic from aqueous streams

ASSIGNMENT OF ASSIGNORS INTEREST SEE DOCUMENT FOR DETAILS. Influence of surface chemistry of activated carbon electrodes on electro-assisted adsorption of arsenate.

### Magnetic materials and magnetic separation of dyes from aqueous solutions: a review

The process of claim 3 further comprising the steps of: concentrating said lithium chloride in said brine solution using said continuous countercurrent adsorption and desorption circuit to form said enhanced lithium product stream, and then, selectively converting said lithium chloride in said enhanced lithium product stream to lithium carbonate, lithium hydroxide, or both. When the cerium +4 compound and precipitating agent are present in the oxidation zone as a fixed bed, it is normally preferred that the particles be spherical in shape so the flow of the aqueous feed through the bed is evenly distributed. Similar to the embodiment illustrated in FIG.

### NIOSHTIC

The efficiency of the electrodialytic water-splitting process can be measured by molds of acid, HF, produced per Faraday of current passed. Advanced Research in Nanosciences for Water Technology.

### Adsorption of Pb(II) from an Aqueous Solution by Titanium Dioxide/Carbon Nanotube Nanocomposites: Kinetics, Thermodynamics, and Isotherms

The CCAD circuit 400, after achieving steady state operation, provided excellent results for lithium recovery. Australian Journal of Engineering and Innovative Technology 2020,, 42-53.

### US8454816B1

Simultaneously removal of inorganic arsenic species from stored rainwater in arsenic endemic area by leaves of Tecomella undulata: a multivariate

study.

## NIOSHTIC

Developing new adsorptive membrane by modification of support layer with iron oxide microspheres for arsenic removal. Inorganic Chemistry Communications 2019, 108 , 107508. In the oxidation vessel the aqueous feed is contacted with a compound containing cerium in the +4 oxidation state hereinafter referred to as cerium, +4 , which Ce +4 is an extremely strong oxidizing agent and oxidizes any arsenite or other arsenic present in the +3 oxidation state to arsenate or other species containing arsenic in the +5 oxidation state.

### **Nanoconfined hydrous titanium oxides with excellent acid stability for selective and efficient removal of As(V) from acidic wastewater**

Arsenic concentrations in wastewaters, groundwaters, surface waters and geothermal waters frequently exceed this level. Hassan NM, Adu-Wusu K, Marra JC 2004 Resorcinol-formaldehyde adsorption of cesium from Hanford waste solutions Part I.

### **US8454816B1**

Dang, Decomplexation efficiency and mechanism of Cu II —EDTA by H<sub>2</sub>O<sub>2</sub> coupled internal micro-electrolysis process, Environ. Any remaining organic materials can be removed with a mixed bed GMF that includes activated carbon as part of the mixed bed.

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