

Energy

Title: Integrated Renewable Fuel Generation Process

Description: The technology identifies a process that utilizes generated hydrogen, atmospheric carbon dioxide and bacteria to produce bioethanol.

Nanotech

Title: Polymers Attached to Carbon Nanotubes

Description: A method for producing polymer/nanotube composites in which the polymers are chemically bonded to the nanotubes. Effective for functionalization and solubilization of carbon nanotube materials.

Advanced Materials

Title: Method of Fabricating Amorphous Coatings on Crystalline Substrates

Description: Method of processing iron based amorphous coating on metallic substrate presents tremendous potential for improving the properties of wear components such as dies, cutting tools, etc.

Semiconductor

Title: Passive, Wireless Corrosion Sensors for Transportation Infrastructure

Description: A passive wireless sensor based on RFID tags to detect the egress of corrosive agents into concrete.

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Intellectual Property
Management

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Technologies Available

Chemical

Title: Process for Water Softening

Description: A method for removing hard water components and heavy metals. It can be used for potable water and does not require regeneration solutions.

Title: Removing Phosphorus from Surface and Drainage Waters

Description: The structure removes dissolved Phosphorus in passing runoff water by utilizing Phosphorus sorption materials allowing for the trapped P to be removed from the watershed.

Title: Sulfur Dioxide and Sulfite Disproportionation Catalysts

Description: A mechanism to produce elemental Sulfur and Sulfuric acid from the by-product sulfite produced in sorbent technologies.

Title: Sensors for Chemicals and Chemical Agents

Description: A method and apparatus for rapidly detecting nerve agents, organophosphates, and other chemical warfare agents.

Title: Instantaneous Catalyzed Formation of Gas Hydrates from Vapour Phases, including Air, at Moderate Pressures and Temperatures

Description: Organic ethers are used as catalysts in the concentration of permanent gases, within the cages of solid hydrates at reduced pressures, which can be released as needed.

Software

Title: A Decision Support Software System for Movie Industry

Description: A prediction system to assess and analyze the financial performance of a movie while in the conceptual stage. It helps in optimizing movie related parameters.

Title: Video Reduction Technology

Description: The technology identifies and reduces key information from video. The software recognizes characters, symbols, and words in noisy video and increase pattern recognition.

Title: Near Time Optimal Jerk Trajectory Design for Multiple Constraints

Description: Method and apparatus for control object manipulation from an initial position to a final position which is useful for more precise control of data storage devices for positioning transducers more precisely over data storage tracks.

Life Science

Title: An Easy, Rapid, Field Test for Canine Parvovirus

Description: Two tests for the presence and amount of Canine Parvovirus in feces as well as antibodies in the blood. It can detect all the strains.

Title: A Mannheimia Haemolytica Outer Membrane Protein as a Vaccine or Vaccine Component for Shipping Fever of Cattle

Description: The Vaccine compositions include a recombinant outer membrane protein of M. haemolytica alone or in combination with other antigenic components, and a carrier or diluent.

Biotech

Title: Direct Serum Lipids Assay

Description: A method to simultaneously measure certain unsaturated lipids and certain vitamins present either as single substances or in complex mixtures such as exist in serum.

Title: Design of Improved Permeation Enhancers for Transdermal Drug Delivery

Description: A virtual screening algorithm for generation of potential chemical penetration enhancers which can be used in transdermal drug delivery.

