Method for Removing Arsenite and Arsenate from Water

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Description of Technology

The Method for Removing Arsenite and Arsenate from Water comprises reacting the water with cupric oxide (CuO) particles for a predetermined time and filtering the reacted water.

Applications

This technology can be used in the home by securing the housing of the treatment and filter system to the outlet of a household water faucet. This method can be used globally to improve the quality of drinking water for its users.

Features & Benefits

The most common techniques for residential water correction have been reverse osmosis (RO) and activated alumina. Activated alumina requires the use of caustic chemicals, while RO is no longer certified as an arsenic removal technique because of its inability to reduce arsenite significantly. This method requires no dangerous chemicals and has the ability to remove arsenic from the water supply in a residential setting. It is simple, effective, inexpensive, and is an instantaneous process. Additionally, there are no harmful by-products and this method is rapid and does not require pH adjustments.

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