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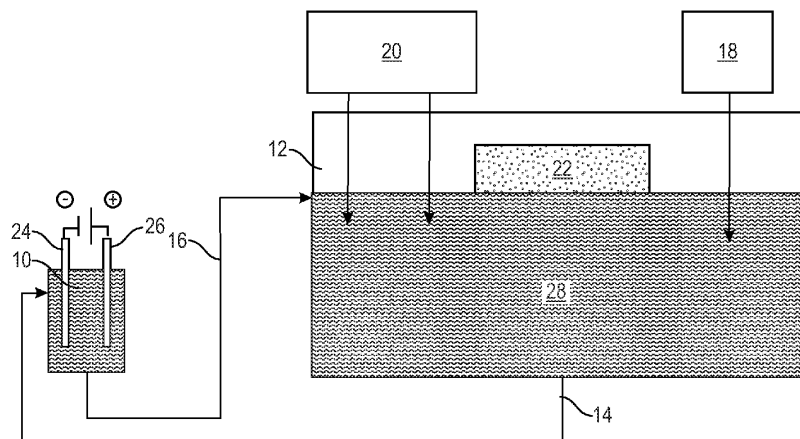


FIG. 1

(57) Abstract: An electrochemical destruction system comprises an electrochemical reactor that defines a contained volume. The electrochemical reactor includes at least one anode and at least one cathode in or extending into the contained volume of the electrochemical reactor. The at least one anode and the at least one cathode are configured to break down per- and polyfluoroalkyl substances (PFAS) in wastewater in the contained volume via electro-oxidation reactions. A pH adjustment device contains an acid and/or a base and is configured to inject the acid or base into the contained volume of the electrochemical reactor or into a volume in fluid communication with the electrochemical reactor to facilitate controlling the pH of the wastewater. A defoamer in the contained volume of the electrochemical reactor or in a volume in fluid communication with the electrochemical reactor is configured to defoam foam generated in the wastewater from the electro-oxidation reactions.

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