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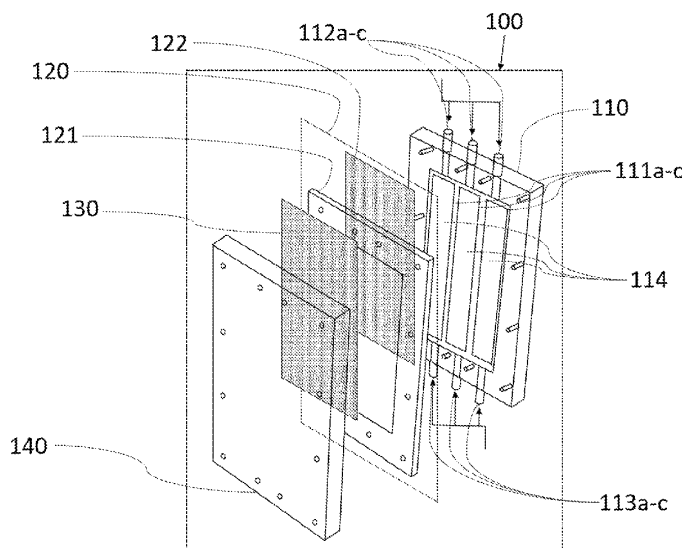


FIG. 2A

(57) Abstract: Disclosed herein is a wastewater treatment reactor that makes use of activated carbon as the adsorbent. The wastewater treatment reaction is suitable for use in an electrochemical advanced oxidation process and includes a cathode and anode, where the cathode is arranged to incorporate activate carbon and carbon brushes. Also disclosed herein are methods making use of the reactor for adsorption of contaminants and its regeneration.

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