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(54) **Title:** CuDATA CATALYST FOR NITRATE ELECTROREDUCTION TO GENERATE AMMONIA

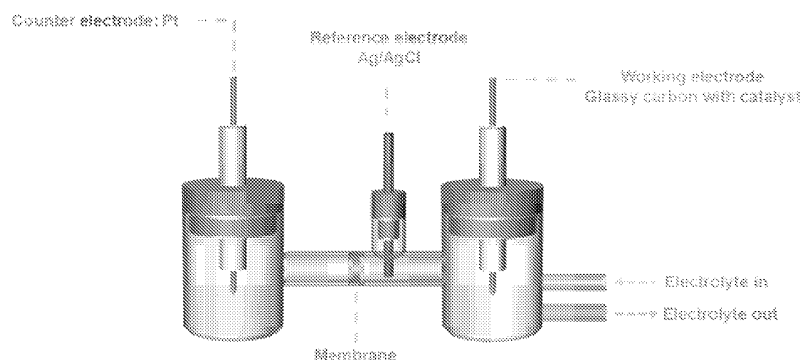


FIG. 2

(57) **Abstract:** The subject invention pertains to a system for the electrochemical conversion of nitrate to ammonia. The electrolysis is carried out using a cell with a working electrode having a CuDATA molecular catalyst absorbed on carbon black. The system is effective for the conversion of waste nitrate solutions to ammonia. The conversion occurs with a high faraday efficiency of about 98%.

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