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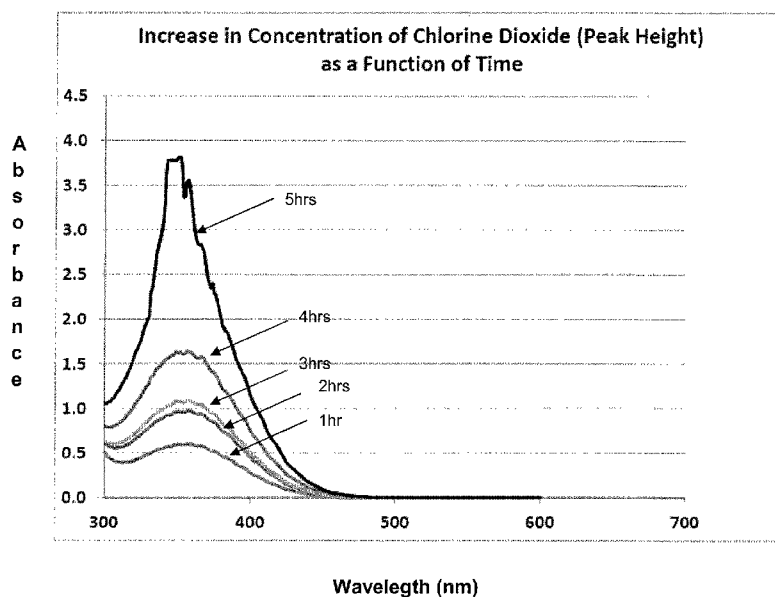
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(54) Title: CATALYTIC OR ELECTROCATALYTIC GENERATION OF CHLORINE DIOXIDE



(57) Abstract: The present invention concerns an electrode element comprising a valve metal substrate, a first catalyst component applied to said substrate, said first catalyst component suitable for evolving oxygen from an aqueous solution under anodic polarization, a second catalyst component suitable for generating chlorine dioxide from a chlorate solution in acidic environment; said first and second catalyst component being electrically insulated from each other. The inventions also concern an electrolytic cell comprising such an electrode element and a process for the generation of chlorine dioxide on a catalyst component an electrochemical cell comprising such an electrode element.