

Title (en)
ELECTROLYSIS CELL AND METHOD OF USE

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EP 0390157 A3 19910417 (EN)

Application
EP 90106050 A 19900329

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US 33146489 A 19890331

Abstract (en)
[origin: EP0390157A2] The present invention discloses an improved solid polymer electrolysis cell (2) for the reduction of carbon dioxide. The improvement being the use of a cathode (6) having a metal phthalocyanine catalyst which results in the suppression of the formation of hydrogen during the reduction process and the subsequent improved conversion efficiency for carbon dioxide.

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C25B 3/04; C25B 11/06

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CPC (source: EP)
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Citation (search report)

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- [A] US 4673473 A 19870616 - ANG PETER G P [US], et al
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- [A] CHEMICAL ABSTRACTS, vol. 108, no. 26, 27th June 1988, page 440, abstract no. 228382k, Columbus, Ohio, US; D.W. DEWULF et al.: "The electrochemical reduction of carbon dioxide to methane and ethene at copper/Nafion electrodes", & CATAL. LETT. 1988, 1(1-3), 73-9
- [A] CHEMICAL ABSTRACTS, vol. 108, no. 8, 22nd February 1988, page 559, abstract no. 64529k, Columbus, Ohio, US; M. MAEDA et al.: "Reduction of carbon dioxide on partially-immersed gold plate electrode and gold-solid polymer electrolyte electrode", & J. ELECTROANAL. CHEM. INTERFACIAL ELECTROCHEM. 1987, 238(1-2), 247-58

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