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(54) Title: APPARATUS AND METHOD FOR THE PRODUCTION OF HYDROGEN

(57) Abstract: An apparatus and method for the production of hydrogen comprising a solution with a pH less than 7, at least one colloidal metal suspended in the solution, and a non colloidal metal.

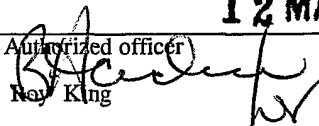


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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/26681

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : C02F 1/461; B01D 5/00 US CL : 204/242, 129, 239, 157.52, 155; 205/255, 257, 264, 637, 742 According to International Patent Classification (IPC) or to both national classification and IPC																				
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S. : 204/242, 129, 239, 157.52, 155; 205/255, 257, 264, 637, 742 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)																				
C. DOCUMENTS CONSIDERED TO BE RELEVANT <table border="1"> <thead> <tr> <th>Category *</th> <th>Citation of document, with indication, where appropriate, of the relevant passages</th> <th>Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td>X --- Y</td> <td>US 4,637,867 (HERBST) 20 January 1987(20.1.1987), abstract, col. 3 lines 9-66, col. 8 lines 57-68, Table IV</td> <td>1-9, 11, 14-25, 27-46, 48-51 ----- 10, 12-13, 26,47</td> </tr> <tr> <td>X</td> <td>US 4,217,186 (MCRAE) 12 August 1980(12.8.1980) abstract, col. 2 lines 13-27, 30-64, col. 3 lines 22-27, lines 54-55,</td> <td>1-2, 4, 6-7, 9, 12-13, 21-22, 24-27, 32-33, 37-39, 41, 43-44, 47-51</td> </tr> </tbody> </table>			Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	X --- Y	US 4,637,867 (HERBST) 20 January 1987(20.1.1987), abstract, col. 3 lines 9-66, col. 8 lines 57-68, Table IV	1-9, 11, 14-25, 27-46, 48-51 ----- 10, 12-13, 26,47	X	US 4,217,186 (MCRAE) 12 August 1980(12.8.1980) abstract, col. 2 lines 13-27, 30-64, col. 3 lines 22-27, lines 54-55,	1-2, 4, 6-7, 9, 12-13, 21-22, 24-27, 32-33, 37-39, 41, 43-44, 47-51									
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