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MA, MD, MG, MK, MN, MU, MW, MX, MY, MZ, NA,  
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RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH,

(54) Title: METHOD OF ELECTROLYSING HYDROGEN BROMIDE AFTER BROMINATION

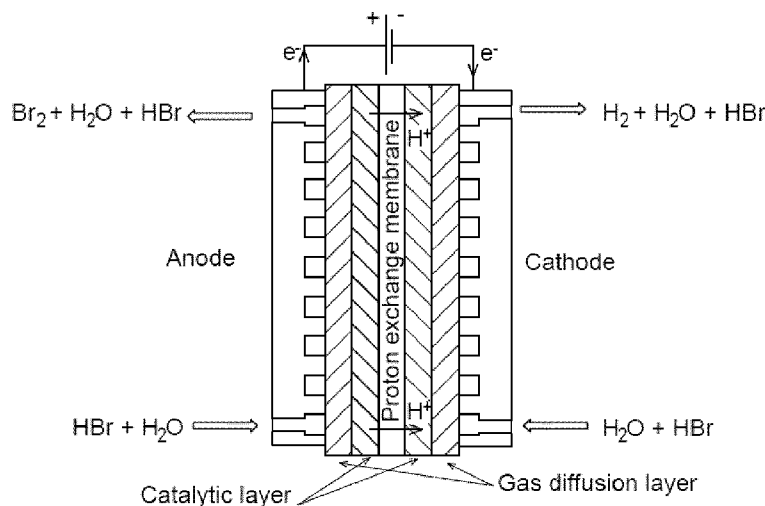


Figure 1

(57) Abstract: A method of electrolysing hydrogen bromide comprising the steps i) brominating a hydrocarbon such that hydrogen bromide is produced, ii) providing an electrolytic cell comprising an anode, a cathode, and a membrane sandwiched between the anode and the cathode, iii) feeding a first composition comprising hydrogen bromide and water to the anode, iv) feeding a second composition comprising hydrogen bromide and water to the cathode, and v) operating the electrolytic cell to produce hydrogen at the cathode, wherein the hydrogen bromide fed in step iii) and/or the hydrogen bromide fed in step iv) is hydrogen bromide produced in step i).



TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS,  
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**A. CLASSIFICATION OF SUBJECT MATTER**  
**INV.**    **C25B1/02**            **C25B1/04**            **C25B1/24**            **C25B9/23**            **C25B13/08**  
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**ADD.**  
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)  
**C25B C07C C08F C08J**

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)  
**EPO-Internal, WPI Data**

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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<b>A</b>	<b>US 2009/028767 A1 (PARKER MELAHN L [US] ET AL)</b> <b>29 January 2009 (2009-01-29)</b> <b>the whole document</b> -----	<b>1-16</b>
<b>A</b>	<b>US 5 411 641 A (TRAINHAM III JAMES A [US] ET AL)</b> <b>2 May 1995 (1995-05-02)</b> <b>the whole document</b> -----	<b>7,10</b>
<b>A</b>	<b>US 2009/308759 A1 (WAYCUILIS JOHN J [US])</b> <b>17 December 2009 (2009-12-17)</b> <b>the whole document</b> -----	<b>1-16</b>

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Date of the actual completion of the international search  <b>11 January 2024</b>	Date of mailing of the international search report  <b>24/01/2024</b>
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Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer  <b>Ritter, Thomas</b>
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