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(54) Title: HYDROGEN PRODUCTION BY REACTION BETWEEN METALLIC PARTICLES AND AN ACID

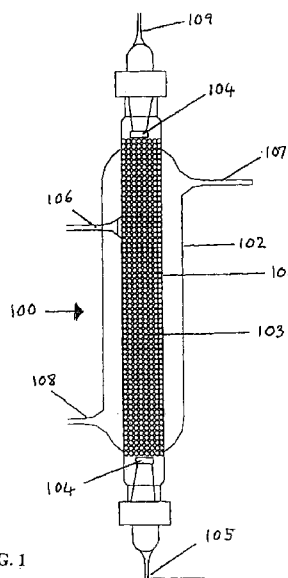


FIG. 1

(57) Abstract: A method for production of hydrogen comprising: i) providing one or more permeable vessel, the permeable vessel containing a plurality of entrapped metal particles; ii) causing an acid to permeate the permeable vessel, wherein the entrapped metal particles react with the acid to generate hydrogen, and wherein the metal particles are exposed to a reducing atmosphere.



INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

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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)

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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 practical, search terms used)

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/182459 A1 (HOCKADAY ROBERT G [US] ET AL) 5 December 2002 (2002-12-05)	1,2,4,5, 11,13, 17,26,33
Y	paragraphs [0025], [0035], [0066]; claims 1,3-6,8,10; figure 1	3,6-9, 14-16, 18,19
X	JP 2005 243617 A (KAWAKEN FINE CHEMICALS CO; CORONA CORP) 8 September 2005 (2005-09-08)	1,2,4,5, 10-17, 20-26, 31-33
Y	paragraphs [0059] - [0062]; claims 1-6,8; figure 1	3,6-9, 18,19, 27-30
X	US 2007/124989 A1 (EICKHOFF STEVEN J [US] ET AL) 7 June 2007 (2007-06-07)	26,33
Y	paragraphs [0019], [0024]; figure 1	27-30
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☒ Further documents are listed in the continuation of Box C.

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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Y	US 6 395 252 B1 (GETTY JOHN PAUL [US] ET AL) 28 May 2002 (2002-05-28) cited in the application the whole document -----	3, 6-9, 14-16, 18, 19
P, X	WO 2009/031578 A (HITACHI MAXELL [JP]; MIKI TAKESHI; NAKAI TOSHIHIRO; SAIBARA SHOJI) 12 March 2009 (2009-03-12) the whole document -----	1
A	US 2006/167147 A1 (ASGARI SOHEIL [DE]) 27 July 2006 (2006-07-27) paragraphs [0059], [0073] -----	10, 20-25, 31, 32

INTERNATIONAL SEARCH REPORT

Information on patent family members

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