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Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))
- of inventorship (Rule 4.17(iv))

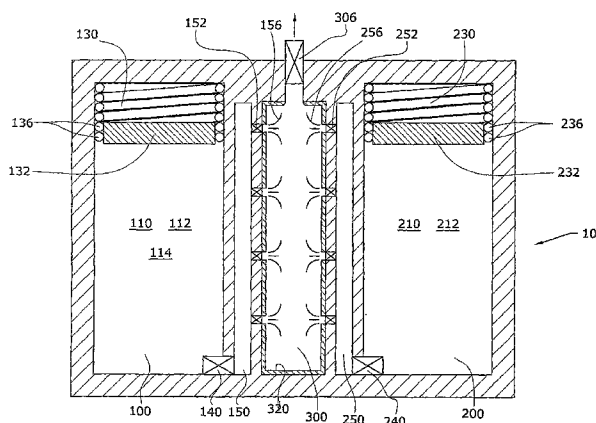
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(54) Title: OPTIMIZING HYDROGEN GENERATING EFFICIENCY IN FUEL CELL CARTRIDGES



(57) Abstract: The present invention involves modifying certain characteristics of solid and aqueous chemical metal hydride fuels to increase the efficiency of hydrogen generation and/or to reduce the problems associated with such conventional hydride fuel sources. The present invention also relates to an apparatus (10) usable with the release of hydrogen from hydride-water fuel cells in which both the borohydride (110) and the water (210) components are in flowable or liquid form.

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INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC: **C10J 3/06**(2006.01);**C10B 1/04**(2006.01)
C01B 3/32(2006.01);B01J 8/00(2006.01)

USPC: 48/61;423/657

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. : 48/61; 423/657

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

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4,261,956 A (ADLHART) 14 April 1981 (14.04.1981)	1-22
A	US 2005/0074643 A1 (ADAMS et al.) 07 April 2005 (07.04.2005)	1-22

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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