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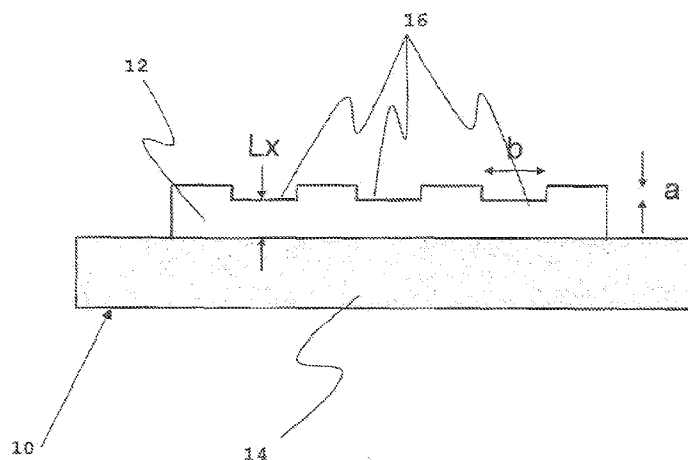
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(54) Title: METHOD AND SYSTEM FOR HIGH EFFICIENCY ELECTRICITY GENERATION USING LOW ENERGY THERMAL HEAT GENERATION AND THERMIONIC DEVICES



(57) Abstract: A system and method are provided for generating electric power from relatively low temperature energy sources at efficiency levels not previously available. The present system and method employ recent advances in low energy nuclear reaction technology and thermionic/thermotunneling device technology first to generate heat and then to convert a substantial portion of the heat generated to usable electrical power. Heat may be generated by a LENR system employing nuclear reactions that occur in readily available materials at ambient temperatures without a high energy input requirement and do not produce radioactive byproducts. The heat generated by the LENR system may be transferred through one or more thermionic converter devices in heat transfer relationship with the LENR system to generate electric power.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2013/040690

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - G21C 3/40 (2013.01)

USPC - 376/321

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)

IPC(8) - H01L 35/28, 30, 32; G21C 3/40 (2013.01)

USPC - 126/263.01; 136/203, 204, 205, 208, 209, 210, 211, 212, 228, 236.1; 376/320, 321

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

CPC - H01L 35/28, 30, 32, 325; G21C 3/40 (2013.01)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

PatBase, Google Patents, Google

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,408,510 A (BALL et al) 18 April 1995 (18.04.1995) entire document	1-18
Y	US 2011/0226299 A1 (MAKANSI) 22 September 2011 (22.09.2011) entire document	1-18
Y	US 2011/0005506 A1 (ROSSI) 13 January 2011 (13.01.2011) entire document	2, 11, 16, 17
Y	US 2009/0223548 A1 (WALITZKI) 10 September 2009 (10.09.2009) entire document	3, 4, 12
A	US 3,234,412 A (SANKOVICH et al) 08 February 1966 (08.02.1966) entire document	1-18
A	US 3,623,947 A (HOBSON et al) 30 November 1971 (30.11.1971) entire document	1-18

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"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

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