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(71) Applicant (for all designated States except US): **ION AMERICA CORPORATION** [US/US]; 1252 Orleans Drive, Sunnyvale, CA 94089-1137 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **MCELROY, James, Frederick** [US/US]; 278 Halladay Avenue, Eats, Suffield, CT 06078 (US). **SRIDHAR, K. R.** [US/US]; 18351 Overlook Road, Los Gatos, CA 95030 (US).

(74) Agents: **KAMINSKI, Michael, D.** et al.; Foley & Lardner LLP, Washington Harbour, 3000 K Street, N.W., Suite 500, Washington, DC 20007-5143 (US).

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(54) Title: FUEL CELL FOR AIRSHIP POWER GENERATION AND HEATING

(57) Abstract: A neutral buoyant airship, such as a blimp, contains a lifting body which allows the airship to remain neutrally buoyant in air and fuel cell located in the airship. A method of generating power in the neutrally buoyant airship, comprising providing a fuel and a oxidizer to a solid oxide fuel cell to generate power, and providing heat from the fuel cell to a remotely located lifting body, wherein the lifting body allows the airship to remain neutrally buoyant in air.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/13895

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H01M 8/04, 8/12, 8/18; B64B 1/62
US CL : 429/13, 17, 21, 22, 24, 26, 30; 244/30, 61, 77, 98

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. : 429/13, 17, 21, 22, 24, 26, 30; 244/30, 61, 77, 98

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. |
|------------|--|-----------------------|
| X | US 5,890,676 A (COLEMAN et al) 06 April 1999, figures 1-3 and their descriptions; column 1, line 43 to column 2, line 67; column 3, lines 12 to column 5, line 15; claims 1, 4-8 and 11-12. | |
| Y | US 6,119, 979 A (LEE et al) 19 September 2000, column 1, lines 55 to column 2, line 13; column 7, line 66 to column 8, lines 29 and 66-67; column 9, lines 30-37; column 12, lines 42-65; column 15, line 37 to column 16, lines 14 and 24 to column 17, lines 7 and 24-47; column 19, line 54 to column 20, line 4; column 21, line 47 to column 22, lines 48 and claims 1-5, 29-31, 34-37, 59 and 64-66. | |

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

☐ See patent family annex.

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|---|--|
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Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
No. (703)305-3230

Authorized officer

Hoa V. Le

Telephone No. 703-308-0661

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