

National Aeronautics and  
Space Administration  
**Jet Propulsion Laboratory**  
NASA Management Office  
4800 Oak Grove Drive  
Pasadena, CA 91109-8099

03-08-2001



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PATENT APPLICATION

Recy to Attn of:

SJ 2-8-01

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Washington, DC 20231

Sir:

Please record the attached original document or copy thereof.

- (1) Conveying party: Jay F. Whitacre, Ratnakumar V. Bugga, William C. West
- (2) Receiving party: California Institute of Technology  
1201 East California Blvd., Pasadena, California 91125
- (3) Nature of conveyance: Assignment
- (4) Application No.: NPO-21015-1-CU/with New Patent Application  
Execution Date: February 1, 2001
- (5) Return recorded document to: John H. Kusmiss  
NASA Management Office, M/S 180-801  
Jet Propulsion Laboratory, 4800 Oak Grove Drive,  
Pasadena, CA 91109
- (6) Total number of applications involved: One
- (7) Total fee (37 CFR 3.41): \$40
- (8) Charge to: Deposit Account No. 14-0116
- (9) To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. The cover sheet consists of one page.

Total number of pages including cover sheet, attachments and documents: 2

Respectfully,

*John H. Kusmiss*  
John H. Kusmiss  
Patent Attorney  
Registration No. 32,149  
(818) 354-7770

40E

Enclosure:  
Assignment

PATENT  
REEL: 011553 FRAME: 0294

**ASSIGNMENT**

**JAY F. WHITACRE, RATNAKUMAR V. BUGGA AND WILLIAM C. WEST**

the ASSIGNORS herein, and the inventors of a new or improved and useful **STRUCTURE AND METHOD FOR MANUFACTURING THIN-FILM LITHIUM MICROBATTERIES**

(JPL Docket No. NPO-21015-1-CU ), desiring to acquire patent protection therefor and for their existing improvement(s) therein, if any, (referred to hereinafter as the INVENTION), have executed concurrently herewith an application for Letters Patent of the United States of America.

The California Institute of Technology, the ASSIGNEE herein, a corporation organized and existing under the laws of the State of California, and having a place of business at Pasadena, California, desires to acquire the entire right, title and interest in the INVENTION, and all patent application(s) filed or pending, and Letters Patent granted and issued on the INVENTION.

NOW, THEREFORE, for valuable consideration, the receipt and legal sufficiency of which is acknowledged, the ASSIGNORS hereby assign, transfer, and set over to the ASSIGNEE, its successors and assigns, the entire right, title and interest in the INVENTION and the aforementioned application for Letters Patent, together with any other application(s), including divisional, continuing and continuations-in-part application(s) of the ASSIGNORS pertaining to or based upon the INVENTION, and any and all Letters Patent which have been or may be granted and issued thereon by the United States of America or foreign countries, together with and including all priority rights deriving from applications subject to this Assignment filed in the United States of America; and

The ASSIGNORS hereby authorize and empower the ASSIGNEE, its successors and assigns, to apply for and obtain, in its or their own names, Letters Patent in any and all countries foreign to the United States in which applications for Letters Patent, or like protection, for the INVENTION, may be filed; and

The ASSIGNORS agree, at the request of the ASSIGNEE, to execute any and all domestic and foreign applications for Letters Patent, to execute all other papers and documents and to perform all lawful acts that the requestor may deem necessary or desirable to obtain Letters Patent, to secure the grant of such Letters Patent and to protect and vest in the ASSIGNEE, or its successors or assigns, the entire right, title and interest in the INVENTION.

WITNESS our hands at PASADENA, CA this 1 day of FEBRUARY, 2001.

Jay F. Whitacre                      Ratnakumar V. Bugga                      William C. West  
Jay F. Whitacre                      Ratnakumar V. Bugga                      William C. West

State of CALIFORNIA     )  
County of LOS ANGELES    )

On February 1, 2001 before me, Karen L. McLaughlin, Notary Public,  
personally appeared Jay F. Whitacre, Ratnakumar V. Bugga, William C. West

personally known to me    - OR -     proved to me on the basis of satisfactory evidence to be the persons whose names are subscribed to the within instrument and acknowledged to me that they executed the same in their authorized capacities, and that by their signatures on the instrument the persons, or the entity upon behalf of which the persons acted, executed the instrument.



WITNESS my hand and official seal.  
Karen L. McLaughlin  
Notary Public

(SEAL)