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10525 U.S. PTO
09/334873
06/17/99

To the Honorable commissioner of Patents
Please record the attached original docu

1. Name of conveying party(ies):
Joseph M. Jacobson Sawyer Fuller
Brian N. Hubert
Brent Ridley
Babak Nivi
Additional name(s) of conveying party(ies) attached? _____ Yes X No

Name and address of receiving party(ies):

Name: Massachusetts Institute of Technology
Street Address: 77 Massachusetts Avenue
City: Cambridge
State: MA Zip:02139

3. Nature of conveyance:
X Assignment
_____ Merger
_____ Security Agreement
_____ Change of Name
_____ Other

Additional name(s) & address(es) attached? _____ Yes X No

Execution Date: June 9, 10, 11, 16, and 17, 1999

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: June 9, 10, 11, 16, and 17, 1999

A. Patent Application No.(s)

B. Patent No. (s)

09/334873

Additional numbers attached? _____ Yes _____ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Steven J. Frank
Cesari and McKenna, LLP
Street Address: 30 Rowes Wharf
City: Boston State: MA Zip: 02110

6. Total number of applications and patents involved:..... 1

7. Total fee (37 CFR 3.41) \$40.00
X Enclosed

_____ Authorized to be charged to deposit account

8. Deposit account no. 03-1237 (Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.

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.

Steven J. Frank, Reg. No. 33,497

Signature

Date: June 17, 1999

Total number of pages comprising cover sheet: 1

ASSIGNMENT

Whereas have made certain inventions or discoveries (or both) set forth in an application for Letters Patent of the United States of America entitled NANOPARTICLE-BASED ELECTRICAL, CHEMICAL, AND MECHANICAL STRUCTURES AND METHODS OF MAKING SAME, identified by Cesari and McKenna File No. 109026-57, which application was executed by us on June 9, 10, 11, 16 and 17, 1999; and

Whereas Massachusetts Institute of Technology, whose address is 77 Massachusetts Avenue, Cambridge, MA 02139, and which, together with its successors and assigns, is hereinafter called "Assignee," is desirous of acquiring the title, rights, benefits, and privileges hereinafter recited;

Now, Therefore, for valuable consideration furnished by Assignee to us, receipt and sufficiency of which we hereby acknowledge, we hereby, without reservation:

1. Assign, transfer, and convey to Assignee our entire right, title, and interest in and to said inventions and discoveries, said application for Letters Patent of the United States of America, any and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation, continuation-in-part, and Convention applications based in whole or in part upon said inventions or discoveries, or upon said applications, and any and all Letters Patent, reissues, reexaminations, and extensions of Letters Patent granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications, and said Letters Patent;

2. Authorize Assignee to file patent applications in any or all countries on any or all of said inventions and discoveries in our names or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or otherwise;

3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignee, as assignee of the entire right, title, and interest therein or otherwise as Assignee may direct;

4. Warrant that we have not knowingly conveyed to others any right in said inventions, discoveries, applications, or patents or any license to use the same or to make, use, or sell anything embodying or utilizing any of said inventions or discoveries; and that we have good right to assign the same Assignee without encumbrance;

5. Bind our heirs, legal representatives and assigns, as well as ourselves, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to us or them, all acts reasonably serving to assure that the said inventions and discoveries, the said patent applications, and the said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by us, our heirs, legal representatives, and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to

Assignee all facts known to us relating to said inventions and discoveries or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples, and other physical exhibits in our control or in the control of our heirs, legal representatives or assigns which may be useful for establishing the facts of our conceptions, disclosures, and reduction to practice of said inventions and discoveries.

In testimony of which we have executed this Assignment as an instrument under seal on the dates indicated next to our names.

6/16/99
Date

[Signature]
Joseph M. Jacobson, Inventor

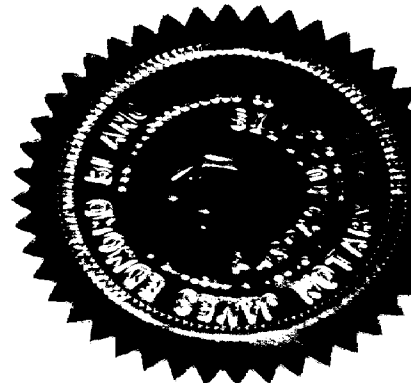
Commonwealth of Massachusetts)
)ss.
County of Middlesex)

On this 16 day of June, 1999, before me appeared Joseph M. Jacobson, to me known and known to me to be the person described in and who executed the foregoing instrument, and he acknowledged the same to be his free act and deed.

[Signature]
Notary Public

[seal]

James Edmond Blanchflower, My commission expires
August 30, 2002



6/11/99
Date

Brian N. Hubert
Brian N. Hubert, Inventor

Commonwealth of Massachusetts)
)ss.
County of Middlesex)

On this 16 day of June, 1999, before me appeared Brian N. Hubert, to me known and known to me to be the person described in and who executed the foregoing instrument, and he acknowledged the same to be his free act and deed.



James Edmond Blanchflower
Notary Public

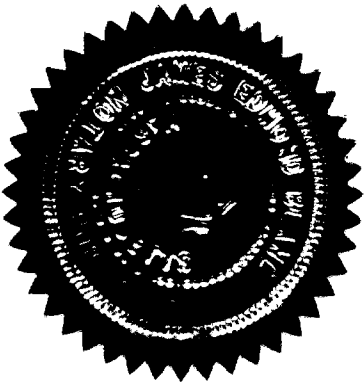
James Edmond Blanchflower, My commission expires August 30, 2002.

6-10-99
Date

Brent Ridley
Brent Ridley, Inventor

Commonwealth of Massachusetts)
)ss.
County of Middlesex)

On this 16 day of June, 1999, before me appeared Brent Ridley, to me known and known to me to be the person described in and who executed the foregoing instrument, and he acknowledged the same to be his free act and deed.



James Edmond Blanchflower
Notary Public

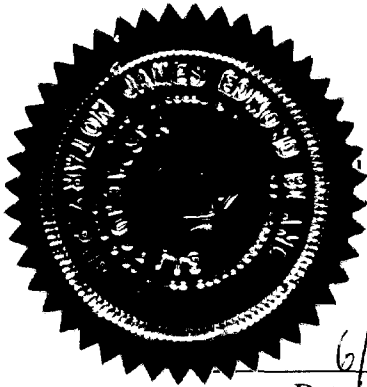
James Edmond Blanchflower, My commission expires August 30, 2002.

11 June 1999
Date

[Signature]
Babak Nivi, Inventor

Commonwealth of Massachusetts)
County of Middlesex)ss.

On this 16 day of June, 1999, before me appeared Babak Nivi, to me known and known to me to be the person described in and who executed the foregoing instrument, and he acknowledged the same to be his free act and deed.



James Edmond Blanchflower
Notary Public

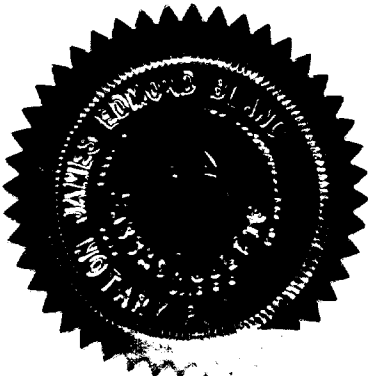
James Edmond Blanchflower, My commission expires Augst 30, 2002.

6/17/99
Date

[Signature]
Sawyer Fuller, Inventor

Commonwealth of Massachusetts)
County of Middlesex)ss.

On this 17 day of June, 1999, before me appeared Sawyer Fuller, to me known and known to me to be the person described in and who executed the foregoing instrument, and he acknowledged the same to be his free act and deed.



James Edmond Blanchflower
Notary Public

James Edmond Blanchflower, My commission expires August 30, 2002.