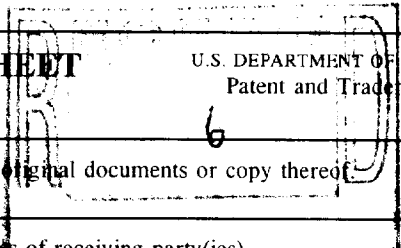


RECORDATION FORM COVER SHEET PATENTS ONLY



To the Honorable Commissioner of Patents and Trademarks: Please record the attached ~~original~~ documents or copy thereof.

8.26.99

1. Name of conveying party(ies):
Moungi Bawendi
Stephen Empedocles

Additional name(s) of conveying party(ies) attached?
 Yes No

2. Name and address of receiving party(ies)

Name: **Massachusetts Institute of Techonology, Inc.**

Internal Address: **5 Cambridge Center, Kendall Square**

Street Address:

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

Execution Date: **Moungi Bawendi - July 7, 1999**
Stephen Empedocles - August 10, 1999

City: **Cambridge** State: **MA** ZIP: **02142**

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

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:

A. Patent Application No.(s)
09/310,009

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: **Valarie Rosen**

Internal Address: **Choate, Hall & Stewart**

Street Address: **Exchange Place**
53 State Street

City: **Boston** State: **MA** ZIP: **02109**

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

7. Total fee (37 CFR 3.41) \$ **40.00**
 Enclosed
 Authorized to be charged to deposit account

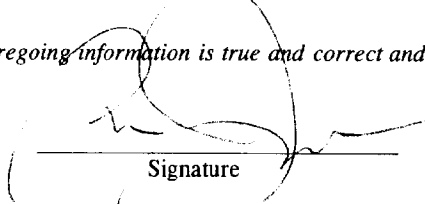
8. Deposit account number: **03-1721**

(Attach duplicate copy of this page if paying by deposit account)

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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.

Brenda Herschbach Jarrell
Name of Person Signing
Reg. No. 39,223


Signature

8/24/99
Date

00 27/1999 MTHAI1 00000104 09310009 Total number of pages including cover sheet, attachments, and documents: _____
01 FC:581 46. 0000 documents to be recorded with required cover sheet information
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Washington, D.C. 20231
I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner For Patents, Washington, D.C. 20231 on 8/24/99

08-27-1999



101128704

PATENT
REEL: 010190 FRAME: 0404

ASSIGNMENT

In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned Mounji Bawendi of Boston, MA and Stephen Empedocles of Palo Alto, CA hereby

Sell, assign and transfer to Massachusetts Institute of Technology, Inc. having a place of business at 5 Cambridge Center, Kendall Square, Cambridge, MA 02142, its successors, assigns and legal representatives, all hereinafter referred to as the ASSIGNEE, the entire right, title and interest for the United States and all foreign countries, in and to any and all inventions which are disclosed in the application for United States Letters Patent filed May 11, 1999, Serial No. 09/310,009, entitled "Polarization Label for Measuring 3-Dimensional Orientation" and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said inventions; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said inventions including the right to apply for patent rights in each foreign country and all rights to priority.

Agree that said ASSIGNEE may apply for and receive Letters Patent for said inventions in its own name; and when requested, without charge to but at the expense of said ASSIGNEE, agree to carry out in good faith the intent and purpose of this assignment by executing all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to said ASSIGNEE all facts known to us relating to said inventions and the history thereof, and generally by doing everything possible which said ASSIGNEE shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in said ASSIGNEE.

Hereby request the Honorable Commissioner of Patents and Trademarks to issue said Letters Patent to said ASSIGNEE.

Covenant with said ASSIGNEE that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us, and that full right to convey the same as herein expressed is possessed by us.

IN WITNESS WHEREOF, I hereto set my hand and seal at Cambridge
Mass. this 7 day of July, 1999.

Mongi Bawendi
Mongi Bawendi

STATE OF Massachusetts
Middlesex SS.
COUNTY OF Middlesex.

Before me this 7th day of July, 1999, personally appeared **Mongi Bawendi** known to me to be the person whose name of subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

Carol Phillips
NOTARY PUBLIC

[Notary's Seal Here]

My Commission Expires:

CAROL PHILLIPS
Notary Public
My Commission Expires April 23, 2004

IN WITNESS WHEREOF, I hereto set my hand and seal at _____
this _____ day of _____, 19____.

Stephen Empedocles
Stephen Empedocles

STATE OF _____
SS.
COUNTY OF _____.

Before me this _____ day of _____, 19____, personally appeared **Stephen Empedocles** known to me to be the person whose name of subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

.....
NOTARY PUBLIC

[Notary's Seal Here]

My Commission Expires:

IN WITNESS WHEREOF, I hereto set my hand and seal at _____,
this _____ day of _____, 19____.

Moungi Bawendi

STATE OF _____
SS.

COUNTY OF _____.

Before me this _____ day of _____, 19____, personally appeared
Moungi Bawendi known to me to be the person whose name of subscribed to the foregoing
Assignment and acknowledged that he executed the same as his free act and deed for the
purposes therein contained.

.....
NOTARY PUBLIC

[Notary's Seal Here]

My Commission Expires:

IN WITNESS WHEREOF, I hereto set my hand and seal at Los Altos, Ca.,
this 10 day of August, 1999.

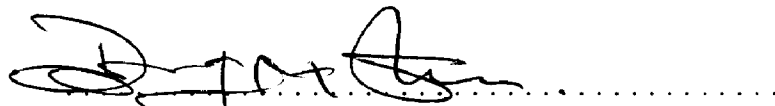


Stephen Empedocles

STATE OF Ca.
SS.

COUNTY OF Santa Clara.

Before me this 10th day of Aug, 1999, personally appeared
Stephen Empedocles known to me to be the person whose name of subscribed to the foregoing
Assignment and acknowledged that he executed the same as his free act and deed for the
purposes therein contained.


.....
NOTARY PUBLIC

[Notary's Seal Here]

My Commission Expires: June 5, 2002.

Exchange.3016143.1

