

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Timothy M. Swager</td><td>09/11/2007</td></tr><tr><td>Tae-Hyun Kim</td><td>09/10/2007</td></tr><tr><td>Shi-Wei Zhang</td><td>10/02/2007</td></tr></tbody></table>		Name	Execution Date	Timothy M. Swager	09/11/2007	Tae-Hyun Kim	09/10/2007	Shi-Wei Zhang	10/02/2007		
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Timothy M. Swager	09/11/2007										
Tae-Hyun Kim	09/10/2007										
Shi-Wei Zhang	10/02/2007										
RECEIVING PARTY DATA											
<table border="1"><tr><td>Name:</td><td>Massachusetts Institute of Technology</td></tr><tr><td>Street Address:</td><td>77 Massachusetts Avenue</td></tr><tr><td>City:</td><td>Cambridge</td></tr><tr><td>State/Country:</td><td>MASSACHUSETTS</td></tr><tr><td>Postal Code:</td><td>02139</td></tr></table>		Name:	Massachusetts Institute of Technology	Street Address:	77 Massachusetts Avenue	City:	Cambridge	State/Country:	MASSACHUSETTS	Postal Code:	02139
Name:	Massachusetts Institute of Technology										
Street Address:	77 Massachusetts Avenue										
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PROPERTY NUMBERS Total: 1											
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>12946685</td></tr></tbody></table>		Property Type	Number	Application Number:	12946685						
Property Type	Number										
Application Number:	12946685										
CORRESPONDENCE DATA											
Fax Number: (617)646-8646 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone: 617-646-8000											
Email: jdaley@wolfgreenfield.com											
Correspondent Name: Timothy J. Oyer											
Address Line 1: 600 Atlantic Avenue											
Address Line 2: Wolf, Greenfield & Sacks, P.C.											
Address Line 4: Boston, MASSACHUSETTS 02210-2206											
ATTORNEY DOCKET NUMBER:	M0925.70143US01										
NAME OF SUBMITTER:	Tina Hanifin										
Total Attachments: 12 source=Assignment M0925.70143US00#page1.tif											

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ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I the undersigned hereby:

1. Sell, assign and transfer to Massachusetts Institute of Technology, a Massachusetts corporation having a place of business at 77 Massachusetts Avenue, Cambridge, MA 02139, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, my entire right, title and interest for the United States and all foreign countries, in and to any and all inventions and designs which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office on April 12, 2004 under Serial No. 10/823093, bearing Attorney Docket No. M0925.70143US00, and entitled EMISSIVE SENSORS AND DEVICES INCORPORATING THESE SENSORS, and in and to said application and all non-provisional, divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent, utility models, industrial designs or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country 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 or any other jurisdiction on said inventions, including the right to apply for patent rights in each foreign country and all rights to priority;
2. Agree that said Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for said inventions in its own name; and when requested, without charge to but at the expense of said Assignee, I agree to carry out in good faith the intent and purpose of this assignment, by executing all non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model and industrial design 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 me relating to said inventions and the history thereof, and generally by doing everything reasonably possible which said Assignee shall consider desirable for aiding in securing and maintaining proper 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;
3. Request the Honorable Director of the United States Patent and Trademark Office to issue said Letters Patent to said Assignee;
4. Authorize and request Wolf, Greenfield & Sacks, P.C. to supply any missing patent/application identification information or correct any errors in the patent/application identification information provided above, whether discovered prior to or after recordation;
5. 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 me and that full right to convey the same as herein expressed is possessed by me; and
6. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those documents specified above and any necessary corrective assignments.

This instrument is executed under seal.

1248236.1

9/11/07
Date

Timothy M. Swager
Inventor: Timothy M. Swager

Address: 18 Copley Street
Newton, MA 02358

Citizenship: U.S.

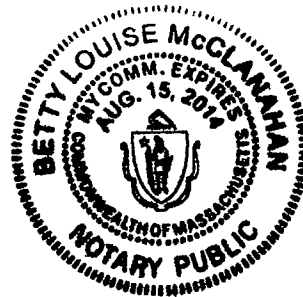
STATE/Commonwealth of MASSACHUSETTS :

COUNTY OF Middlesex :

On this 11TH day of SEPTEMBER, 2007, before me, the undersigned notary public, personally appeared Timothy Swager, proved to me through satisfactory evidence of identification, which were Timothy Swager, to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL Betty Louise McClanahan
Notary Public

My commission expires AUGUST 15, 2014



Date

Inventor: Tae-Hyun Kim

Address: Dohwa-dong 177
Nam-kum Incheon
Korea

Citizenship: Republic of Korea

Date

Witness:

1248236.1

Date

Inventor: Shi Wei Zhang

Address: 14 Plymouth Avenue
Belmont, MA 02478

Citizenship: People's Republic of China

STATE/Commonwealth of _____ :

COUNTY OF _____ :

On this ____ day of _____, 20__, before me, the undersigned notary public, personally appeared _____, proved to me through satisfactory evidence of identification, which were _____, to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL _____
Notary Public

My commission expires _____

1248236.1

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I the undersigned hereby:

1. Sell, assign and transfer to Massachusetts Institute of Technology, a Massachusetts corporation having a place of business at 77 Massachusetts Avenue, Cambridge, MA 02139, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, my entire right, title and interest for the United States and all foreign countries, in and to any and all inventions and designs which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office on April 12, 2004 under Serial No. 10/823093, bearing Attorney Docket No. M0925.70143US00, and entitled EMISSIVE SENSORS AND DEVICES INCORPORATING THESE SENSORS, and in and to said application and all non-provisional, divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent, utility models, industrial designs or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country 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 or any other jurisdiction on said inventions, including the right to apply for patent rights in each foreign country and all rights to priority;
2. Agree that said Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for said inventions in its own name; and when requested, without charge to but at the expense of said Assignee, I agree to carry out in good faith the intent and purpose of this assignment, by executing all non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model and industrial design 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 me relating to said inventions and the history thereof, and generally by doing everything reasonably possible which said Assignee shall consider desirable for aiding in securing and maintaining proper 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;
3. Request the Honorable Director of the United States Patent and Trademark Office to issue said Letters Patent to said Assignee;
4. Authorize and request Wolf, Greenfield & Sacks, P.C. to supply any missing patent/application identification information or correct any errors in the patent/application identification information provided above, whether discovered prior to or after recordation;
5. 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 me and that full right to convey the same as herein expressed is possessed by me; and
6. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those documents specified above and any necessary corrective assignments.

This instrument is executed under seal.

Date

Inventor: Timothy M. Swager

Address: 18 Copley Street
Newton, MA 02358

Citizenship: U.S.

STATE/Commonwealth of _____ :

COUNTY OF _____ :

On this ____ day of _____, 20__, before me, the undersigned notary public, personally appeared _____, proved to me through satisfactory evidence of identification, which were _____, to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL _____
Notary Public

My commission expires _____

09/10 / '07

Date

Inventor: Tae-Hyun Kim

Address: Dohwa-dong 177
~~Nam-ku~~ Incheon
Korea

Nam-Ku ←

Citizenship: Republic of Korea

09/10 / '07

Date

Witness:

Kyunwon Kim
Kyunwon Kim
Prof. of Chemistry
University of Incheon
Dohwa-dong 177
Nam-ku Incheon
Korea

Date

Inventor: Shi Wei Zhang

Address: 14 Plymouth Avenue
Belmont, MA 02478

Citizenship: People's Republic of China

STATE/Commonwealth of _____ :

COUNTY OF _____ :

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SEAL _____
Notary Public

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ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I the undersigned hereby:

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2. Agree that said Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for said inventions in its own name; and when requested, without charge to but at the expense of said Assignee, I agree to carry out in good faith the intent and purpose of this assignment, by executing all non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model and industrial design 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 me relating to said inventions and the history thereof, and generally by doing everything reasonably possible which said Assignee shall consider desirable for aiding in securing and maintaining proper 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;
3. Request the Honorable Director of the United States Patent and Trademark Office to issue said Letters Patent to said Assignee;
4. Authorize and request Wolf, Greenfield & Sacks, P.C. to supply any missing patent/application identification information or correct any errors in the patent/application identification information provided above, whether discovered prior to or after recordation;
5. 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 me and that full right to convey the same as herein expressed is possessed by me; and
6. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those documents specified above and any necessary corrective assignments.

This instrument is executed under seal.

Date

Inventor: Timothy M. Swager

Address: 18 Copley Street
Newton, MA 02358

Citizenship: U.S.

STATE/COMMONWEALTH OF _____ :

COUNTY OF _____ :

On this ____ day of _____, 20__, before me, the undersigned notary public, personally appeared _____, proved to me through satisfactory evidence of identification, which were _____, to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL _____
Notary Public

My commission expires _____

Date

Inventor: Tae-Hyun Kim

Address: Dohwa-dong 177
Nam-kum Incheon
Korea

Citizenship: Republic of Korea

Date

Witness:

10/2/07
Date

Shi Wei Zhang
Inventor: Shi-Wei Zhang

Address: 14 Plymouth Avenue
Belmont, MA 02478

Citizenship: People's Republic of China

STATE/Commonwealth of Massachusetts :
COUNTY OF Middlesex :

On this 2 day of October, 2007, before me, the undersigned notary public, personally appeared SHI WEI ZHANG, proved to me through satisfactory evidence of identification, which were MASS License, to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL Christine Ciphariatsoli
Notary Public

My commission expires

