

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>David M. Chen</td> <td>07/16/2012</td> </tr> <tr> <td>Jan H. Kuypers</td> <td>07/03/2012</td> </tr> <tr> <td>Pritiraj Mohanty</td> <td>07/11/2012</td> </tr> <tr> <td>Klaus Juergen Schoepf</td> <td>07/11/2012</td> </tr> <tr> <td>Guiti Zolfagharkhani</td> <td>07/02/2012</td> </tr> <tr> <td>Jason Goodelle</td> <td>07/03/2012</td> </tr> </tbody> </table>		Name	Execution Date	David M. Chen	07/16/2012	Jan H. Kuypers	07/03/2012	Pritiraj Mohanty	07/11/2012	Klaus Juergen Schoepf	07/11/2012	Guiti Zolfagharkhani	07/02/2012	Jason Goodelle	07/03/2012
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RECEIVING PARTY DATA															
<table border="1"> <tr> <td>Name:</td> <td>Sand 9, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>One Kendall Square</td> </tr> <tr> <td>Internal Address:</td> <td>Suite B2305</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>02139-1594</td> </tr> </table>		Name:	Sand 9, Inc.	Street Address:	One Kendall Square	Internal Address:	Suite B2305	City:	Cambridge	State/Country:	MASSACHUSETTS	Postal Code:	02139-1594		
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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>13681873</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13681873										
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CORRESPONDENCE DATA															
Fax Number: 6176468646 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 6176468000 Email: mchiusano@wolfgreenfield.com Correspondent Name: Robert H. Walat Address Line 1: 600 Atlantic Avenue Address Line 2: Wolf, Greenfield & Sacks, P.C. Address Line 4: Boston, MASSACHUSETTS 02210-2206															
ATTORNEY DOCKET NUMBER:	G0766.70046US01														

OP \$40.00 13681873

NAME OF SUBMITTER:

Melanie Chiusano

Total Attachments: 8

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PATENT

REEL: 029932 FRAME: 0509

ASSIGNMENT

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

1. Sell, assign and transfer to Sand 9, Inc., a Delaware Corporation having a place of business at One Kendall Square; Suite B2305; Cambridge, Massachusetts 02139-1594, 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 May 8, 2012 under No. 13/466,767, bearing Attorney Docket No. G0766.70046US00, and entitled MICROELECTROMECHANICAL SYSTEMS (MEMS) RESONATORS AND RELATED APPARATUS AND METHODS, and in and to the application and all corresponding provisional, 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, including but not limited to China, Japan and Korea, on any of the 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 the inventions, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China, Japan and Korea;
2. Agree that the Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for the inventions in its own name; and when requested, without charge to but at the expense of the 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 the inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to the Assignee all facts known to me relating to the inventions and the history thereof, and generally by doing everything reasonably possible which the Assignee shall consider desirable for aiding in securing and maintaining proper protection for the inventions and for vesting title to the inventions and all applications for patents and all patents on the inventions, in the Assignee;
3. Request the Director of the United States Patent and Trademark Office to issue the Letters Patent to the 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 the 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 and signed under the pains and penalties of perjury under the laws of the United States of America.

2744340.1

7/16/2012
Date

David M. Chen
Inventor: David M. Chen
Address: 9 Berkeley Court
Brookline, Massachusetts 02445
Citizenship: US

STATE/Commonwealth of CALIFORNIA
COUNTY OF LOS ANGELES:

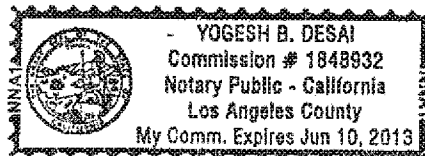
On this 16th day of JULY, 2012, before me, the undersigned notary public, personally appeared David M. Chen, proved to me through satisfactory evidence of identification, which were MASSACHUSETTS DRIVER LICENSE, to be the person who signed the preceding or attached document in my presence and swore or 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

Yogesh B. Desai
Notary Public

My commission expires:

JUNE 10th 2013



Date

7/3/2012Inventor: Jan H. KuypersAddress: 36 Fairmont Street, Apt. 2Cambridge, Massachusetts 02139Citizenship: United KingdomSTATE/Commonwealth of MASSACHUSETTS
COUNTY OF MIDDLESEX:

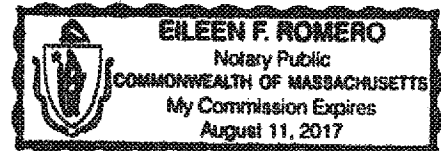
On this 3RD day of JULY, 2012, before me, the undersigned notary public,
personally appeared Jan H. Kuypers, proved to me through satisfactory evidence of
identification, which were _____,

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

Eileen F. Romero
Notary Public

My commission expires:

8/11/17

7/11/12
Date

[Signature]
Inventor: Pritiraj Mohanty
Address: 120 Granville Avenue, #22
Los Angeles, California 90049
Citizenship: India

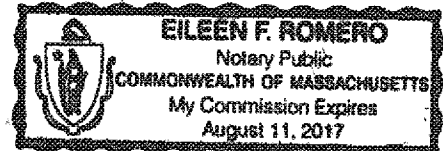
STATE/Commonwealth of MASSACHUSETTS
COUNTY OF MIDDLESEX:

On this 11th day of JULY, 2012, before me, the undersigned notary public, personally appeared Pritiraj Mohanty, proved to me through satisfactory evidence of identification, which were MASS. DRIVERS 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

Eileen F. Romero
Notary Public

My commission expires: 8/11/17



07/11/2012
Date

Klaus Juergen Schoepf
Inventor: Klaus Juergen Schoepf
Address: 3153 E. Buena Vista Drive
Chandler, Arizona 85249
Citizenship: Germany

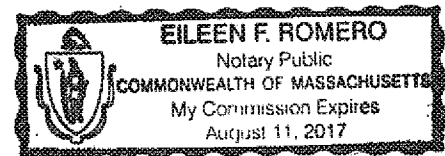
STATE/Commonwealth of MASSACHUSETTS
COUNTY OF MIDDLESEX:

On this 11TH day of JULY, 2012, before me, the undersigned notary public, personally appeared Klaus Juergen Schoepf, proved to me through satisfactory evidence of identification, which were AZ DRIVERS 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

Eileen F. Romero
Notary Public

My commission expires: 8/11/17



Date 7/2/2012Inventor: Guiti ZolfagharkhaniAddress: 18 Melvin Avenue, Apt. 5
Brighton, Massachusetts 02135

Citizenship: Iran (Islamic Republic of)

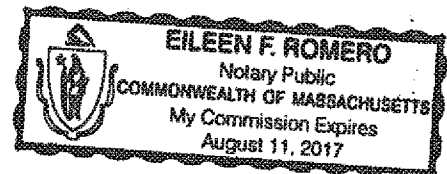
STATE/Commonwealth of MASSACHUSETTS
COUNTY OF MIDDLESEX:

On this 2ND day of JULY, 2012, before me, the undersigned notary public, personally appeared Guiti Zolfagharkhani, proved to me through satisfactory evidence of identification, which were PERMANENT RESIDENT CARD, 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

Eileen F. Romero
Notary Public

My commission expires:

8/11/2017

Date

7/3/12Inventor: Jason Goodelle

Address: 150 Staniford Street

Apt. 700

Boston, Massachusetts 02114

Citizenship: US

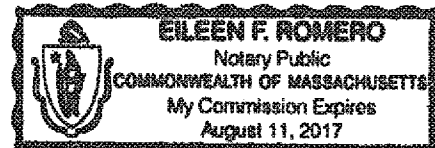
STATE/Commonwealth of MASSACHUSETTS
COUNTY OF MIDDLESEX:

On this 3RD day of JULY, 2012, before me, the undersigned notary public, personally appeared Jason Goodelle, proved to me through satisfactory evidence of identification, which were MASS. DRIVERS 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

Eileen F. Romero
Notary Public

My commission expires:

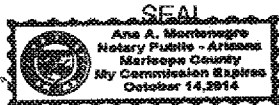
8/11/17

07/03/2012
Date

Reimund Rebel
Inventor: Reimund Rebel
Address: 18198 N. Alicia Ct.
Maricopa, Arizona 85138
Citizenship: Germany

STATE/Commonwealth of Arizona
County of Maricopa:

On this 3rd day of July, 2012, before me, the undersigned notary public, personally appeared Reimund Rebel, proved to me through satisfactory evidence of identification, which ~~was~~ ^{were} valid AZ driver's licence, 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.



[Signature]
Notary Public

My commission expires: October 14, 2014

2744340.1