PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KATHLEEN MCMILLAN	10/01/2013
ANURAG GUPTA	10/16/2013
JAMES PATRICK MCGUIRE	10/08/2013

RECEIVING PARTY DATA

Name:	GRADIANT RESEARCH, LLC.
Street Address:	1958 MAIN STREET
City:	CONCORD
State/Country:	MASSACHUSETTS
Postal Code:	01742-9133

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13965715

CORRESPONDENCE DATA

Fax Number: (978)341-0136

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via

US Mail.

Phone: 978-341-0036

Email: nicole.isabelle@hbsr.com Correspondent Name: TIMOTHY J. MEAGHER, ESQ.

Address Line 1: 530 VIRGINIA ROAD, P.O. BOX 9133

Address Line 2: HAMILTON, BROOK, SMITH & REYNOLDS, P.C. CONCORD, MASSACHUSETTS 01742-9133 Address Line 4:

ATTORNEY DOCKET NUMBER:	4313.1002-002
NAME OF SUBMITTER:	NICOLE ISABELLE
SIGNATURE:	/NICOLE ISABELLE/
DATE SIGNED:	03/11/2014

Total Attachments: 10

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PATENT

REEL: 032402 FRAME: 0589 502715360



Joint

ASSIGNMENT

Jr. , have inv	REAS, we, Kathleen McMillan, Anurag Gupta and James Patrick McGuire, ented a certain improvement in Low Profile Apparatus And Method For by described in an application for Patent,
	the specification of which is about to be filed in the United States Patent Office (use for utility (37 CFR § 1.53(b)) and design filings only);
	is about to be filed in the United States Patent Office as a Provisional Application
\boxtimes	the specification of which is United States Application No. 13/965,715, filed August 13, 2013;
	the specification of which is a Patent Cooperation Treaty Application, International Application No. [], filed , which designates the United States of America [and is assigned United States Application No.];
	which was patented under United States Patent No. [].

WHEREAS, Gradiant Research, LLC (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the Commonwealth of Massachusetts, and having a usual place of business at 1958 Main Street, Concord, Massachusetts 01742 desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for any and all related provisional and nonprovisional, international and national phase applications, including any and all substitution, reissue, divisional, continuation, and continuation-in-part applications, and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein; we hereby expressly authorize the filing of an International Patent Application under the

Patent Cooperation Treaty which corresponds to and claims the priority of the above-identified application;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any future applications including substitution, reissue, divisional or continuation, continuation-in-part applications, and all related provisional and nonprovisional, international and national phase applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature:	
Kathleen N	McMillan
State/Commonwealth	
of Massachusett	
County of Middlesex	
On this day of	2013, before me, the undersigned notary
personally known to me, or	
proved to me through satisfactory evidence	e of identification, which was
Mass. Orvers 2	lonse
to be the person whose name was signed on the for acknowledged that he/she signed the foregoing in	
(SEAL) Nota	ary Public alere & Ftypot
<u>A</u>	Mene & Fin pateick (print name)
My	Commission expires/
	ARLEME E. FITZPATRICK Motory Public Commonwealth of Massachusetts No. Commission Expires August 5, 2016

Inventor's Signature:	4		
State/Commence 141	A	nurag Gupta	
State/Commonwealth of			
of County of			
On this	day of	20	_, before me, the undersigned notary
public, personally app	eared Anurag Gupta,		
personally kno	wn to me, or		
proved to me the	rough satisfactory e	vidence of iden	tification, which was
to be the person whose acknowledged that he/	e name was signed or she signed the forego	oing instrument	instrument in my presence, and as his/her free act and deed.
(SEAL)			
			(print name)
		My Commiss	ion expires//
Inventor's Signature:_			
State/Commonwealth	James P	atrick McGuire	, Jr.
of County of			
public, personally appo	day ofeared James Patrick I	20 McGuire, Jr.	, before me, the undersigned notary
		, , , , , , ,	
personally know	wn to me, or		
proved to me the	nrough satisfactory ev	vidence of ident	tification, which was
to be the person whose acknowledged that he/	name was signed on she signed the forego	the foregoing i	instrument in my presence, and as his/her free act and deed.
(SEAL)		Notary Public	
			(print name)
		My Commissi	ion expires//
1400406 1		1viy Collilliss	ion expires//
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Joint

<u>ASSIGNMENT</u>

Jr. , have inv	REAS, we, Kathleen McMillan, Anurag Gupta and James Patrick McGuire, ented a certain improvement in Low Profile Apparatus And Method For by described in an application for Patent,
	the specification of which is about to be filed in the United States Patent Office (use for utility (37 CFR § 1.53(b)) and design filings only);
	is about to be filed in the United States Patent Office as a Provisional Application
	the specification of which is United States Application No. 13/965,715, filed August 13, 2013;
	the specification of which is a Patent Cooperation Treaty Application, International Application No. [], filed , which designates the United States of America [and is assigned United States Application No.];
	which was patented under United States Patent No. [].
	REAS, Gradiant Research, LLC (hereinafter "ASSIGNEE"), a corporation d existing under the laws of the Commonwealth of Massachusetts, and having a

WHEREAS, Gradiant Research, LLC (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the Commonwealth of Massachusetts, and having a usual place of business at 1958 Main Street, Concord, Massachusetts 01742 desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America. its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for any and all related provisional and nonprovisional, international and national phase applications, including any and all substitution, reissue, divisional, continuation, and continuation-in-part applications, and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein; we hereby expressly authorize the filing of an International Patent Application under the

Patent Cooperation Treaty which corresponds to and claims the priority of the above-identified application;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any future applications including substitution, reissue, divisional or continuation, continuation-in-part applications, and all related provisional and nonprovisional, international and national phase applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved:

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature:	The second secon
	Kathleen McMillan
State/Commonwealth	
of	
County of	
On this day of	20 , before me, the undersigned notary
public, personally appeared Kathlee	
personally known to me, or	
personally line wit to life, or	
proved to me through satisfa	actory evidence of identification, which was
to be the person whose name was s	igned on the foregoing instrument in my presence, and
	e foregoing instrument as his/her free act and deed.
(CDATA	Nr. 4 (1) 11.
(SEAL)	Notary Public
	(print name)
	My Commission expires/

Inventor's Signature:	MA
State/Commonwealth	nurag Gupta
of	
County of	
On this day of public, personally appeared Anurag Gupta,	20 , before me, the undersigned notary
public, personally appeared Andrag Gupta,	
personally known to me, or	
proved to me through satisfactory e	vidence of identification, which was
to be the person whose name was signed or acknowledged that he/she signed the forego	a the foregoing instrument in my presence, and bing instrument as his her free act and deed.
(SEAL)	Notary Public
	(print name)
	My Commission expires / /
	wy Commission expires/
Inventor's Cignature	
Inventor's Signature:	atrick McGuire, Jr.
State/Commonwealth	waren ivie Gane, vii
of	
County of	
On this day of public, personally appeared James Patrick N	
personally known to me, or	
proved to me through satisfactory ev	vidence of identification, which was
	·
to be the person whose name was signed on acknowledged that he/she signed the forego	the foregoing instrument in my presence, and ing instrument as his/her free act and deed.
(SEAL)	Notary Public
	(print name)
	My Commission expires//
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1498496_1	

- 3 -

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California	
County of Santa Clava	
On 14th day of oct - 2013 before me, michelle J. Ch	ioi, Notary Public,
personally appeared Anuvag Gupta	
who proved to me on the basis of satisfactory evidence to be a subscribed to the within instrument and acknowledge executed the same in has/her/their authorized capacity(ies) signature(s) on the instrument the person(s), or the entity uperson(s) acted, executed the instrument.	ed to me that he/she/they, and that by his/her/their
I certify under PENALTY OF PERJURY under the laws of the foregoing paragraph is true and correct.	he State of California that the
WITNESS my hand and official seal.	
Signature: Mucke (1'	
Notary Seal: MICHELLE J. CHOI Commission # 1957683 Notary Public - California Santa Clara County My Comm. Expires Oct 22, 2015	
Description of Attached Document Title or Type of Document:	

Joint

ASSIGNMENT

Ir., have	HEREAS, we, Kathleen McMillan, Anurag Gupta and James Patrick McGuire, invented a certain improvement in Low Profile Apparatus And Method For rapy described in an application for Patent,	
	the specification of which is about to be filed in the United States Patent Office (use for utility (37 CFR § 1.53(b)) and design filings only);	
	is about to be filed in the United States Patent Office as a Provisional Application	
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	which was patented under United States Patent No. [].	
W	HEREAS Gradiant Research, LLC (hereinafter "ASSIGNEE"), a corporation	

WHEREAS, Gradiant Research, LLC (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the Commonwealth of Massachusetts, and having a usual place of business at 1958 Main Street, Concord, Massachusetts 01742 desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for any and all related provisional and nonprovisional, international and national phase applications, including any and all substitution, reissue, divisional, continuation, and continuation-in-part applications, and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein; we hereby expressly authorize the filing of an International Patent Application under the

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IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature:	
	Kathleen McMillan
State/Commonwealth of County of	
On this day of public, personally appeared Kathle	20 , before me, the undersigned notary een McMillan,
personally known to me, o	o r
proved to me through satis	sfactory evidence of identification, which was
1	signed on the foregoing instrument in my presence, and the foregoing instrument as his/her free act and deed.
(SEAL)	Notary Public
	(print name
	My Commission expires / /

Inventor's Signature:		
Anurag Gupta State/Commonwealth of		
of County of		
On this day of 20, before me, the undersigned notary public, personally appeared Anurag Gupta,		
personally known to me, or		
proved to me through satisfactory evidence of identification, which was		
to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.		
(SEAL) Notary Public		
(print name)		
Inventor's Signature:		
James Patrick McGuire, Jr.		
State/Commonwealth of CA County of Los Aco 6 123		
State/Commonwealth of CA County of Los Angeles On this 8th day of October 2013, before me, the undersigned notary public, personally appeared James Patrick McGuire, Jr.		
personally known to me, or		
proved to me through satisfactory evidence of identification, which was CA Drivers License of James Patrick McGuire, In		
to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.		
(SEAL) KERRY MCCALMONT COMM. # 1873488 (Original Processing Common Comm		

- 3 -