

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3154421

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	HARVEY C. WOODSUM	05/26/2009
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	HOBBIT WAVE	
<b>Street Address:</b>	9 HEMLOCK ROAD	
<b>City:</b>	WESTON	
<b>State/Country:</b>	MASSACHUSETTS	
<b>Postal Code:</b>	02493	
<b>PROPERTY NUMBERS Total: 1</b>		
	<b>Property Type</b>	<b>Number</b>
	Application Number:	14053512
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(617)526-5000	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>		
<b>Phone:</b>	6175266587	
<b>Email:</b>	DIANA.MOSLEY@WILMERHALE.COM	
<b>Correspondent Name:</b>	DIANA MOSLEY	
<b>Address Line 1:</b>	60 STATE STREET	
<b>Address Line 2:</b>	WILMERHALE	
<b>Address Line 4:</b>	BOSTON, MASSACHUSETTS 02109	
<b>ATTORNEY DOCKET NUMBER:</b>	2202543.121US5	
<b>NAME OF SUBMITTER:</b>	DIANA MOSLEY	
<b>SIGNATURE:</b>	/DIANA MOSLEY/	
<b>DATE SIGNED:</b>	12/18/2014	
<b>Total Attachments: 3</b>		
source=121 US5 Executed Assignment from Priority Application_(139059596)_(1)#page1.tif		
source=121 US5 Executed Assignment from Priority Application_(139059596)_(1)#page2.tif		
source=121 US5 Executed Assignment from Priority Application_(139059596)_(1)#page3.tif		

## ASSIGNMENT

WHEREAS, I, **Harvey C. WOODSUM**, being a citizen of the United States of America, whose residence is 70 Campbell Road, Bedford, Massachusetts 03110, am the inventor of certain new and useful inventions and discoveries, for which I have made an application for Letters Patent entitled **BEAMFORMING DEVICES AND METHODS** which a utility patent application was filed in the United States Patent and Trademark Office on **February 17, 2009** and assigned Serial No. **12/372454**; and

WHEREAS, **Hobbit Wave** whose address is 9 Hemlock Road, Weston, Massachusetts 02493, 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 and in consideration of good and valuable consideration furnished by ASSIGNEE to me, receipt and sufficiency of which I hereby acknowledge, I hereby without reservations:

1. Assign, transfer, and convey to ASSIGNEE the entire right, title, and interest in and to said inventions and discoveries, said application for Letters Patent, 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 Patents, reissues, 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 my name or in the name of ASSIGNEE or otherwise as ASSIGNEE may deem advisable, under International Conventions 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 throughout the world to issue or transfer all said Letters Patents to ASSIGNEE, as assignee of the entire right, title, and interest therein or otherwise as ASSIGNEE may direct;

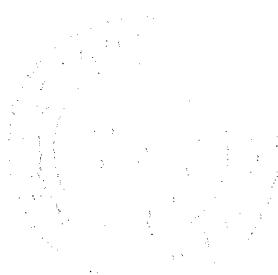
4. Warrant that I have not knowingly conveyed to others any right in said inventions, discoveries, applications, or patents, or any license to use the same, or to make, use, or sell anything embodying or utilizing any of said inventions or discoveries; and that I have good right to assign the same to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

5. Bind my heirs, legal representatives, and assigns, as well as myself, to do, upon ASSIGNEE's request and at ASSIGNEE's expense, but without additional consideration to me or them, all acts reasonably serving to assure that said inventions and discoveries, said patent applications, and said Letters Patents shall be held and enjoyed by ASSIGNEE as fully and entirely as the same could have been held and enjoyed by me, my 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; and to communicate to ASSIGNEE all facts known to me relating to said inventions and discoveries or the history thereof, and to testify as to the same in any court or proceeding; and to furnish ASSIGNEE any and all documents, photographs, models, samples, and other physical exhibits in my control or in the control of my heirs, legal representatives, or assigns which may be useful for establishing the facts of my conceptions, disclosures, and reduction to practice of said inventions and discoveries.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal.

DATE 5/26/2009 Harvey Woods  
Harvey C. WOODSUM

On this 26th day of May (Month/Year), **Harvey C. WOODSUM**,  
personally known to me to be the same individual who executed the foregoing Assignment, and  
who acknowledged to me that execution of the same was of his own free will for the use and  
purposes therein set forth.

  
Arlene Dayle  
Exp: 6/2/09