

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4786200

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
SURESH SINGH	08/26/2016
FARNOOSH MOSHIRFATEMI	09/09/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	PORTLAND STATE UNIVERSITY
<b>Street Address:</b>	PO BOX 751-RSP
<b>City:</b>	PORTLAND
<b>State/Country:</b>	OREGON
<b>Postal Code:</b>	97207-0751
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15746275
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(503)595-5301
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<b>Email:</b>	valerie.sullivan@klarquist.com
<b>Correspondent Name:</b>	MARK W. WILSON/KLARQUIST SPARKMAN, LLP
<b>Address Line 1:</b>	121 SW SALMON ST, SUITE 1600
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<b>Address Line 4:</b>	PORTLAND, OREGON 97204
<b>ATTORNEY DOCKET NUMBER:</b>	3005-95358-03
<b>NAME OF SUBMITTER:</b>	MARK W. WILSON
<b>SIGNATURE:</b>	/ Mark W. Wilson /
<b>DATE SIGNED:</b>	01/22/2018
<b>Total Attachments: 4</b>	
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source=95358-03_Assignment#page3.tif	
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## ASSIGNMENT

WHEREAS, we, Suresh Singh, of Portland, Oregon, and Farnoosh Moshirfatemi, of Beaverton, OR, have invented a certain invention, as described in the following patent applications:

U.S. Provisional Patent Application No. 62/199,787, filed on July 31, 2015, entitled

“EMBEDDING DATA ON OBJECTS USING SURFACE MODULATION,”

PCT Patent Application No. PCT/US2016/043695, filed on July 22, 2016, entitled

“EMBEDDING DATA ON OBJECTS USING SURFACE MODULATION,”

which applications are collectively referred to as “the patent applications.”

WHEREAS, Portland State University, a university organized under the laws of the State of Oregon, having a place of business at PO Box 751-RSP, Portland, Oregon 97207-0751, desires to acquire an interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we, Suresh Singh and Farnoosh Moshirfatemi hereby sell, assign, and transfer to Portland State University, the full and exclusive right, title, and interest in and to said invention, the patent applications, and patent rights throughout the world, including foreign patent priority rights, the right to file and prosecute International Applications under the Patent Cooperation Treaty, and the right to file and prosecute applications under the European Patent Convention; said invention, the patent applications, and letters patent in this or any foreign country, and all corresponding non-provisional applications, divisions, continuations, continuations-in-part, reissues, and extensions thereof, to be held and enjoyed by Portland State University, for its own use and benefit, and for its successors and assigns to the full end of the term for which letters patent may be granted by the United States or any foreign country, as fully and entirely as the same would have been held by us had this assignment and sale not been made, and covenant that we have full right so to do, and agree that we will communicate to Portland State University, or its successors and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths, and do everything possible to aid Portland State University, its successors, and assigns to obtain and enforce proper patent protection for said invention in the

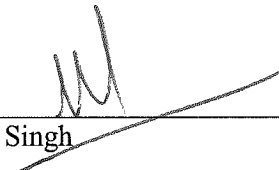
United States or any foreign country.


We confirm that at the time the invention was made, we were under an obligation to assign the invention to Portland State University.

We hereby grant the law firm of Klarquist Sparkman, LLP, the power to insert on this Assignment any further information that may be necessary or desirable in order to comply with all applicable legal requirements, including the rules of the United States Patent and Trademark Office, for submitting and recording this document.

Executed at the place and date opposite our respective signatures below.

At Portland, OR  
(City and State)  
on this 26 day of August, 2016.

  
\_\_\_\_\_  
Suresh Singh

Witnessed by:   
Print Name: Ashley Costerman  
Date: 8/28/2016

At \_\_\_\_\_  
(City and State)  
on this \_\_\_\_\_ day of \_\_\_\_\_, 2016.

\_\_\_\_\_  
Farnoosh Moshirfatemi

Witnessed by: \_\_\_\_\_  
Print Name: \_\_\_\_\_  
Date: \_\_\_\_\_

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Executed at the place and date opposite our respective signatures below.

\_\_\_\_\_  
Suresh Singh

At \_\_\_\_\_  
(City and State)  
on this \_\_\_\_ day of \_\_\_\_\_, 2016.

Witnessed by: \_\_\_\_\_  
Print Name: \_\_\_\_\_  
Date: \_\_\_\_\_

\_\_\_\_\_  
Farnoosh Moshirfatemi

At Seattle, WA  
(City and State)  
on this 9 day of Sep, 2016.

Witnessed by: Hooman Shiranimehr  
Print Name: HOOMAN SHIRANIMEHR  
Date: 09-09-2016