

PATENT ASSIGNMENT COVER SHEET

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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>SINA FARSIU</td> <td>02/18/2014</td> </tr> <tr> <td>STEPHANIE J. CHIU</td> <td>02/18/2014</td> </tr> <tr> <td>JOSEPH A. IZATT</td> <td>02/18/2014</td> </tr> </tbody> </table>		Name	Execution Date	SINA FARSIU	02/18/2014	STEPHANIE J. CHIU	02/18/2014	JOSEPH A. IZATT	02/18/2014
Name	Execution Date								
SINA FARSIU	02/18/2014								
STEPHANIE J. CHIU	02/18/2014								
JOSEPH A. IZATT	02/18/2014								
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State/Country:	NORTH CAROLINA								
Postal Code:	27705								
PROPERTY NUMBERS Total: 1									
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>PCT Number:</td> <td>US1413243</td> </tr> </tbody> </table>		Property Type	Number	PCT Number:	US1413243				
Property Type	Number								
PCT Number:	US1413243								
CORRESPONDENCE DATA									
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ATTORNEY DOCKET NUMBER:	210/20 PCT								
NAME OF SUBMITTER:	BENTLEY J. OLIVE								
Signature:	/Bentley J. Olive/								

Date:

02/19/2014

Total Attachments: 5

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ASSIGNMENT

WHEREAS. We. Sina Farsiu of Durham. North Carolina; Stephanie J. Chiu of Durham, North Carolina; and Joseph A. Izatt of Raleigh. North Carolina; (hereinafter "Assignor"), have invented certain new and useful improvements in **SEGMENTATION AND IDENTIFICATION OF CLOSED-CONTOUR FEATURES IN IMAGES USING GRAPH THEORY AND QUASI-POLAR TRANSFORM**, for which an International Application was made on January 27, 2014, as Patent Cooperation Treaty Application No. PCT/US14/13243, and which claims priority from U.S. Provisional Patent Application 61/756527 filed on January 25, 2013. (I hereby authorize the attorney recording this assignment to insert the Serial No. and filing date of the application to which this assignment refers to if such information is unavailable as of the execution date of this assignment).

AND, WHEREAS, **Duke University**, a university having its principal office and place of business at 2812 Erwin Road, Durham, North Carolina (hereinafter "Assignee"), is desirous of acquiring an interest therein.

NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor has assigned and by these presents does hereby sell, assign, transfer, and convey unto the Assignee, its successors and assigns, his entire right, title, and interest in and to the invention and application, including the right to sue for past infringements and any other prior occurring rights, provided any such rights exist, and in and to any and all domestic and foreign patent applications filed on the invention, and in and to any and all continuations, continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America, and all foreign countries or reissues thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted, together with his right to claim the priority of said application in all foreign countries in accordance with the International Convention, the same to be held and enjoyed by said Assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by Assignor if this assignment and sale had not been made. Assignor further assigns to Assignee the right to claim entitlement and/or priority to any applications that entitlement or priority may be claimed for this or any later filed application.

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The assignment of the right to claim entitlement and/or priority is executed *nunc pro tunc* and is considered effective as of the filing date of the earliest application to which priority and/or entitlement is claimed.

Assignor hereby requests that said Letters Patent be issued in accordance with this assignment.

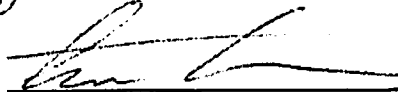
Assignor further covenants and agrees that, at the time of the execution and delivery of these presents, Assignor possesses full title to the invention and application above-mentioned, and that he has the unencumbered right and authority to make this assignment.

Assignor further covenants and agrees, and likewise binds his heirs, legal representatives and assigns, to promptly communicate to said Assignee or its representatives any facts known to him relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the Assignee, its representatives, successors and assigns to secure patent or similar protection for the said invention in all countries and to vest in the Assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said Assignee, its successors, assigns and other legal representatives.

<< Signature Page Follows >>

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Executed this 18 day of February, 2014.



Sina Farsiu

Witnessed by:

Catherine Fiedman 2/18/14
Name Date

Kyndei Kimrey Kyruel Kimrey 2/18/14
Name Date

Executed this _____ day of _____, 2014.

Stephanie J. Chiu

Witnessed by:

Name Date

Name Date

210/20 PCT (DU3889PCT)

Executed this _____ day of _____, 2014.

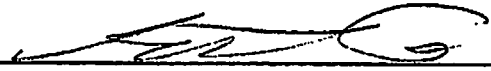
Sina Farsiu

Witnessed by:

Name Date


Name Date

Executed this 18th day of February, 2014.

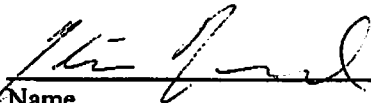


Stephanie J. Chiu

Witnessed by:



Name Date
2014-02-18



Name Date
2014-02-18

210/20 PCT (DU3889PCT)

Executed this 18 day of February, 2014.

Joseph A. Izatt
Joseph A. Izatt

Witnessed by:

[Signature] 2014-02-18
Name Date

[Signature] 2014-02-18
Name Date
