

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>MARIOS SAVVIDES</td> <td>10/02/2013</td> </tr> <tr> <td>FELIX JUEFEI-XU</td> <td>10/03/2013</td> </tr> </tbody> </table>		Name	Execution Date	MARIOS SAVVIDES	10/02/2013	FELIX JUEFEI-XU	10/03/2013
Name	Execution Date						
MARIOS SAVVIDES	10/02/2013						
FELIX JUEFEI-XU	10/03/2013						
RECEIVING PARTY DATA							
Name:	CARNEGIE MELLON UNIVERSITY						
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State/Country:	PENNSYLVANIA						
Postal Code:	15213						
PROPERTY NUMBERS Total: 2							
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>14038167</td> </tr> <tr> <td>Application Number:</td> <td>61744436</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14038167	Application Number:	61744436
Property Type	Number						
Application Number:	14038167						
Application Number:	61744436						
CORRESPONDENCE DATA							
Fax Number:	(802)862-7512						
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NAME OF SUBMITTER:	MORGAN S. HELLER II						
Signature:	/Morgan S. Heller II/						

OP \$80.00 14038167

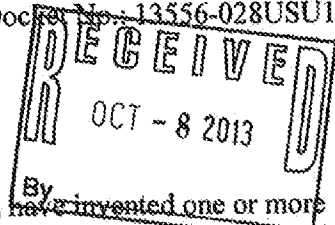
Date:

10/10/2013

Total Attachments: 2

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source=Assignments_13556028USU1#page2.tif



ASSIGNMENT

Whereas, I, **Marios Savvides**, residing in **Pittsburgh, PA**, have invented one or more new and useful inventions and have filed therefor U.S. Nonprovisional Patent Application Serial No. 14/038,167, filed on September 26, 2013, entitled "Image Matching Using Subspace-Based Discrete Transform Encoded Local Binary Patterns" and U.S. Provisional Patent Application Serial No. 61/744,436 filed September 26, 2012 (hereinafter, "Application(s)");

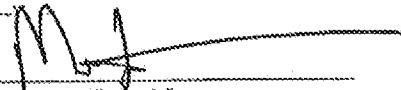
And whereas, Carnegie Mellon University, a Pennsylvania Non-Profit Corporation, having a place of business at 5000 Forbes Avenue, Pittsburgh, PA 15213 (hereinafter called Assignee), desires to acquire the entire right, title and interest in the Application(s) and all inventions disclosed therein, and to any United States and foreign patents to be obtained therefor, and to any United States, International, and foreign patent applications to be filed thereon;

Now therefore, for good and valuable consideration, receipt whereof is hereby acknowledged, I, the above-named inventor hereby sell, assign, and transfer to Assignee, its successors and assigns, and confirm any previous assignments made by me for, the entire right, title and interest in the Application(s) and inventions therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of the Application(s), and I hereby agree that Assignee may file one or more international applications and apply for foreign Letters Patent on said inventions; and I request the Commissioner for Patents of the United States Patent and Trademark Office and the authorized official in each respective foreign patent office to issue any Letters Patent granted upon the inventions set forth in the Application(s) to Assignee; and I will execute all papers necessary in connection with the United States, international, and foreign applications when called upon to do so by Assignee.

I, the above-named, hereby covenant that no assignment, sale, agreement, or encumbrance has been or will be made or entered into which would conflict with this Assignment.

Executed at PITTSBURGH (city/town), PA / USA (state/country),

this 2nd day of October, 2013



Marios Savvides

14507443.1

ASSIGNMENT

Whereas, I, **Felix Juefei-Xu**, residing in **Pittsburgh, PA**, have invented one or more new and useful inventions and have filed therefor U.S. Nonprovisional Patent Application Serial No. 14/038,167, filed on September 26, 2013, entitled "Image Matching Using Subspace-Based Discrete Transform Encoded Local Binary Patterns" and U.S. Provisional Patent Application Serial No. 61/744,436 filed September 26, 2012 (hereinafter, "Application(s)");

And whereas, Carnegie Mellon University, a Pennsylvania Non-Profit Corporation, having a place of business at 5000 Forbes Avenue, Pittsburgh, PA 15213 (hereinafter called Assignee), desires to acquire the entire right, title and interest in the Application(s) and all inventions disclosed therein, and to any United States and foreign patents to be obtained therefor, and to any United States, international, and foreign patent applications to be filed thereon;

Now therefore, for good and valuable consideration, receipt whereof is hereby acknowledged, I, the above-named inventor hereby sell, assign, and transfer to Assignee, its successors and assigns, and confirm any previous assignments made by me for, the entire right, title and interest in the Application(s) and inventions therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of the Application(s), and I hereby agree that Assignee may file one or more international applications and apply for foreign Letters Patent on said inventions; and I request the Commissioner for Patents of the United States Patent and Trademark Office and the authorized official in each respective foreign patent office to issue any Letters Patent granted upon the inventions set forth in the Application(s) to Assignee; and I will execute all papers necessary in connection with the United States, international, and foreign applications when called upon to do so by Assignee.

I, the above-named, hereby covenant that no assignment, sale, agreement, or encumbrance has been or will be made or entered into which would conflict with this Assignment.

Executed at Pittsburgh (city/town), Pennsylvania (state/country), ^{USA}
this 3rd day of October, 2013.



Felix Juefei-Xu

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