504680699 12/11/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CHANDRASEKHAR BHAGAVATUA	11/16/2017
MARIOS SAVVIDES	11/16/2017

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 2

Property Type	Number
Application Number:	15698829
Application Number:	62495271

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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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ATTORNEY DOCKET NUMBER: 13556-044USU1

NAME OF SUBMITTER: MORGAN S. HELLER II

SIGNATURE: /Morgan S. Heller II/

DATE SIGNED: 12/11/2017

Total Attachments: 2

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PATENT 504680699 REEL: 044352 FRAME: 0652

Attorney Docket No.: 13556-044USU1

ASSIGNMENT

Whereas, I, Chandrasekhar Bhagavatua, residing in Pittsburgh, PA, have invented one or more new and useful inventions and have filed U.S. Nonprovisional Patent Application Serial No. 15/698,829, filed on September 8, 2017, entitled "Methods and Software for Generating a Derived 3D Object Model From a Single 2D Image," and U.S. Provisional Patent Application No. 62/495,271, filed on September 8, 2016, entitled "Cranio Facial Reconstruction From a Single Image", (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, including all provisional applications relating thereto, all divisional applications, renewal applications, continuation applications, continuation-in-part applications, and design applications thereof, and all issued patents which may have been granted or may be granted hereafter thereon, and all reissues, renewals, reexaminations, and extensions to any of the foregoing and all patents issuing thereon, and all rights of priority resulting from any of the foregoing.

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 <u>PITTS BU</u>	<u> </u>	<u>PA (</u>	state/country),
this 6 day of	November	_, 2017.	// ///	//-//
		<u> </u>	khar Bhagavatua	3/2

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Attorney Docket No.: 13556-044USU1

ASSIGNMENT

Whereas, I, **Marios Savvides**, residing in **Pittsburgh**, **PA**, have invented one or more new and useful inventions and have filed U.S. Nonprovisional Patent Application Serial No. 15/698,829, filed on September 8, 2017, entitled "Methods and Software for Generating a Derived 3D Object Model From a Single 2D Image," and U.S. Provisional Patent Application No. 62/495,271, filed on September 8, 2016, entitled "Cranio Facial Reconstruction From a Single Image", (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, including all provisional applications relating thereto, all divisional applications, renewal applications, continuation applications, continuation-in-part applications, and design applications thereof, and all issued patents which may have been granted or may be granted hereafter thereon, and all reissues, renewals, reexaminations, and extensions to any of the foregoing and all patents issuing thereon, and all rights of priority resulting from any of the foregoing.

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 (state/country),

this 6 day of November, 2017.

Marios Savvides

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