

<b>PATENT ASSIGNMENT COVER SHEET</b>
--------------------------------------

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5554088

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
FREDERICK LANNI	06/03/2019
JONATHAN MINDEN	05/24/2019
PHU T VAN	05/24/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	CARNEGIE MELLON UNIVERSITY
<b>Street Address:</b>	5000 FORBES AVENUE
<b>City:</b>	PITTSBURGH
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	15213
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15576570
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(412)904-7800
<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>Email:</b>	vorys_docketing@cardinal-ip.com
<b>Correspondent Name:</b>	VORYS, SATER, SEYMOUR AND PEASE LLP
<b>Address Line 1:</b>	500 GRANT STREET
<b>Address Line 2:</b>	SUITE 4900
<b>Address Line 4:</b>	PITTSBURGH, PENNSYLVANIA 15219
<b>ATTORNEY DOCKET NUMBER:</b>	055146-000030
<b>NAME OF SUBMITTER:</b>	MARCIA A. JOHNSTON
<b>SIGNATURE:</b>	/Marcia A. Johnston/
<b>DATE SIGNED:</b>	06/04/2019
This document serves as an Oath/Declaration (37 CFR 1.63).	
<b>Total Attachments: 4</b>	
source=ScanAttachment#page1.tif	
source=ScanAttachment#page2.tif	
source=ScanAttachment#page3.tif	



## ASSIGNMENT

Whereas, we:

Frederick Lanni, residing in Pittsburgh, Pennsylvania; and

Jonathan Minden, residing in Pittsburgh, Pennsylvania; and

Phu T. Van, residing in Seattle, Washington [ASSIGNORS]

have invented certain new and useful improvements in "Structured Illumination System for Increased Dynamic Range in Quantitative Imaging" for which a United States Patent Application Serial No. 15/576,570 was filed on November 22, 2017.

Carnegie Mellon University; 5000 Forbes Avenue; Pittsburgh, Pennsylvania 15213 [ASSIGNEE], is desirous of acquiring the entire right, title, and interest in and to the Application and the inventions and improvements therein disclosed.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and with the intention of being legally bound and other good and valuable consideration paid to us by the ASSIGNEE, receipt we acknowledge, we assign, sell, transfer and set over unto the ASSIGNEE the entire right, title, and interest in and to the Application and the inventions and improvements therein disclosed for the United States and all foreign countries and any Letters Patent which may issue therefor in the United States and all foreign countries and all divisions, reissues, continuations, renewals, and application claiming priority to the Application, and/or extensions thereof including all priority rights, the ASSIGNEE to have and to hold the interests assigned to the full ends of the terms of the Letters Patent and any and all divisions, reissues, continuations, renewals any applications claiming priority to the Application, and/or extensions thereof.

We covenant that we are the lawful owners of the Application, inventions, and improvements, that the same are unencumbered, that no license has been granted to make, use, or vend the inventions or improvements, and that we have the full right to make this Assignment.

For the consideration recited above, we agree that we will communicate to the ASSIGNEE or the representatives thereof any facts known to us respecting the inventions and improvements, and will, upon request, but without expense to us, testify in any legal proceedings, sign all lawful papers, execute all divisional, reissue, continuation, renewal, any application claiming priority to the Application, and/or extension applications, make all rightful oaths, and generally do all other and further lawful acts, deemed necessary or expedient by the ASSIGNEE or by counsel for the ASSIGNEE, to assist or enable the ASSIGNEE to obtain and enforce full benefits from the rights and interests herein assigned. This Assignment shall be binding upon our heirs, executors, administrators and/or assigns, and shall inure to the benefit

of the heirs, executors, administrators, successors, and/or assigns, as the case may be, of the ASSIGNEE.

ASSIGNOR (1)

By: / *F. Lanni* / Executed: 6/3/2019, 2019  
Frederick Lanni

ASSIGNOR (2)

By: / Jonathan Minden /  
Jonathan Minden

Executed: 5/24/2019, 2019

ASSIGNOR (3)

By: / Phu Van /  
Phu T. Van

Executed: 5/24/2019, 2019