505906868 02/08/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT5953585

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MARIA I. ALTBACH	05/08/2013
ALI BILGIN	06/11/2013
CHUAN HUANG	05/02/2013
CHRISTIAN GRAFF	04/10/2013

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16530905

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SIGNATURE:	/Michael J. Donohue/
DATE SIGNED:	02/08/2020

PATENT REEL: 051760 FRAME: 0290 505906868

Total Attachments: 5

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PATENT REEL: 051760 FRAME: 0291 U.S. Application No. 16/530,905, filed August 2, 2019
Continuation of U.S. Application No. 14/371,995, filed July 11, 2014
371 of International Patent Application No. PCT/US2013/024500, filed February 1, 2013
International Patent Application No. PCT/US2013/024500

ASSIGNMENT

WHEREAS, we, Maria I. ALTBACH of 2417 East Kleindale, Tucson, Arizona 85719; Ali BILGIN of 4337 East Haven Lane, Tucson, Arizona 85712; Chuan HUANG of 71 Martin Street, Apartment 3, Cambridge, Massachusetts 02114, and Christian GRAFF of 1001 Spring Street, Apartment 827, Silver Spring, Maryland 20910, respectively, are the joint inventors of an invention entitled "SYSTEM AND METHOD FOR IMAGE PROCESSING WITH HIGHLY UNDERSAMPLED IMAGING DATA," as described and claimed in International Patent Application No. PCT/US2013/024500, filed February 1, 2013, which claims priority to United States Provisional Patent Application No. 61/633,017 filed February 3, 2012, and United States Provisional Patent Application No. 61/687,788, filed May 1, 2012;

WHEREAS, the THE ARIZONA BOARD OF REGENTS ON BEHALF OF THE UNIVERSITY OF ARIZONA, (hereinafter referred to as ASSIGNEE) a body corporate organized under the constitution of the State of Arizona, located at University Services. Bldg., Rm. 204, P.O. Box 210158, 888 N. Euclid Avenue; Tucson, Arizona 85721-0158, United States of America, is desirous of acquiring the entire right, title and interest in and to said invention, said provisional application, and any and all letters patent that may be granted therefor in the United States and foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign and transfer unto said ASSIGNEE, as of February 1, 2013, the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their

PATENT REEL: 051760 FRAME: 0292 successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNORS had this assignment, transfer and sale not been made. ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNORS agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

FOR THE ASSIGNORS:		
5/2/2013		By INVI
Date		Marià I. Altbach
STATE OF ARIZONA COUNTY OF <u>Pivn</u> ø)) ss.)	
I certify that I know	or have satisfactory	evidence that Maria I. Altbach is the
person who appeared befo	ore me, and said per	son acknowledged that she signed this
instrument and acknowled	ged it to be her free	and voluntary act for the uses and
purposes mentioned in the	instrument. Dated ら	8/13
	Signature of Notary Public	
	Printed Name	Emily Helling
	My appointment exp	pires <u>Dl(</u>
		EMILY HELLWIG HOTARY PUBLIC - ARIZONA Plma County Y Commission Expires December 8, 2015

6/11/2013		By 405	», ~(
Date '		Ali Bilgin	V
STATE OF ARIZONA)		
COUNTY OF PIMA) ss.)		

I certify that I know or have satisfactory evidence that Ali Bilgin is the person who appeared before me, and said person acknowledged that he signed this instrument and acknowledged it to be his free and voluntary act for the uses and purposes mentioned in the instrument.

MORSEA MAITO Hotsey Flitts - Arteono Plans County My Comm. Expires Aug 8, 2018	Dated <u>JUNE</u> 1,2013 Signature of Notary Public <u>June</u> Printed Name <u>Novua</u> Natio My appointment expires <u>Aug</u> 8,2016
$\frac{5/2/201}{\text{Date}}$	3 By Chuan Huang

STATE OF ARIZONA MASS)

COUNTY OF Suffeik)

I certify that I know or have satisfactory evidence that Chuan Huang is the person who appeared before me, and said person acknowledged that he signed this instrument and acknowledged it to be his free and voluntary act for the uses and purposes mentioned in the instrument.

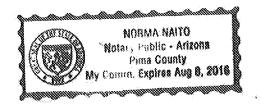
Dated 17104 2, 70	13
Signature of Notary Public	
Printed Name Band	zane.
My appointment expires _	March 27,7020



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Aril 10, 201	3	By Christian Graff (
STATE OF ARIZONA COUNTY OF Malyone))ss. Y_)		
I certify that I know person who appeared before instrument and acknowled purposes mentioned in the	ged it to be his free a	son acknowledged th	nat he signed this
i.	Dated <u>OG lo</u> Signature of Notary Public Printed Name	Att. BL. Attifun Rel	NOTARY PUBLIC STATE OF MARYLAND My Commission Explices September 17, 2013
	My appointment exp	oires <u>09 1</u>	1. 7.013
FOR THE ASSIGNEE:			<i>.</i> . №
7/3///3 Date		By Douglas Hockst	ad ad
STATE OF ARIZONA COUNTY OF PMA)) ss.)		

I certify that I know or have satisfactory evidence that Douglas Hockstad is the person who appeared before me, and said person acknowledged that he signed this instrument, on oath stated that he was authorized to execute the instrument, and acknowledged it as the Director or the Office of Technology Transfer of The Arizona Board of Regents on Behalf of the University of Arizona (ASSIGNEE), to be the free and voluntary act of said corporation for the uses and purposes mentioned in the instrument.



Date07	<u>-31-13 </u>
Signature of Notary Public	Thus Nate
Printed Name	Noma Närts
My appointmen	nt expires <u> </u>