

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT6809909

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	EXECUTIVE ORDER 9424, CONFIRMATORY LICENSE
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
WAVEFRONT LLC	10/24/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	THE GOVERNMENT OF THE UNITED STATES AS REPRESENTED BY THE SECRETARY OF THE AIR FORCE
<b>Street Address:</b>	2240 B STREET
<b>Internal Address:</b>	AREA B, BUILDING 11
<b>City:</b>	WRIGHT-PATTERSON AFB
<b>State/Country:</b>	OHIO
<b>Postal Code:</b>	45433
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	12244938
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>	afmclo.jaz.pat@us.af.mil
<b>Correspondent Name:</b>	AFMCLO/JAZ
<b>Address Line 1:</b>	2240 B STREET
<b>Address Line 2:</b>	AREA B, BUILDING 11
<b>Address Line 4:</b>	WRIGHT-PATTERSON AFB, OHIO 45433
<b>NAME OF SUBMITTER:</b>	SHERRY A. BOWES
<b>SIGNATURE:</b>	/Sherry A. Bowes/
<b>DATE SIGNED:</b>	07/13/2021
<b>Total Attachments: 2</b>	
source=Wavefront-12244938#page1.tif	
source=Wavefront-12244938#page2.tif	

U.S. Provision Patent Application No.: 62266935.

Filing Date: 14<sup>th</sup> December 2015.

Contract No.: FA8650-13-C-6378

These six (6) inventions identified above are "Subject Inventions" under Patent Rights Clause (52.227-11) included in Contract Number FA8650-13-C-6378 with the U.S. Air Force.


Wavefront LLC, the Contractor, elects to retain ownership of the subject invention throughout the world in accordance with the provisions of the Patent Rights Clause (52.227-11).

This document is confirmatory of the paid-up license granted to the Government under these contracts in this invention, patent application(s), and resulting patent(s), and of all other rights acquired by the Government by the referenced clause.

The Government is hereby granted an irrevocable power to inspect and make copies of the above-identified patent application(s).

Signed the 24<sup>th</sup> day of October in 2016.

By:



Jie Yao, Ph.D., P.I., CTO, co-founder  
Wavefront, LLC  
New Jersey

## **Election to Retain Ownership and Confirmatory License**

(1)

U.S. Patent 7067853 entitled "Image intensifier using high-sensitivity high-resolution photodetector array" issued on 27<sup>th</sup> June 2006

Inventor: Jie Yao, Ph.D.

U.S. Application No.: 10907090.

Filing Date: 18<sup>th</sup> March 2005.

Contract No.: FA8650-13-C-6378

(2)

U.S. Patent 8253215 entitled "Mesa heterojunction phototransistor and method for making same" issued on 28<sup>th</sup> August 2012

Inventor: Jie Yao, Ph.D.

U.S. Application No.: 12687257.

Filing Date: 14<sup>th</sup> January 2010.

Contract No.: FA8650-13-C-6378

(3)

U.S. Patent 8314446 entitled "Photo-detector array, semiconductor image intensifier and methods of making and using the same" issued on 20<sup>th</sup> November 2012

Inventor: Jie Yao, Ph.D.

U.S. Application No.: 12244938.

Filing Date: 3<sup>rd</sup> October 2008.

Contract No.: FA8650-13-C-6378

(4)

U.S. Patent 8354324 entitled "Mesa heterojunction phototransistor and method for making same" issued on 15<sup>th</sup> January 2013

Inventor: Jie Yao, Ph.D.

U.S. Application No.: 13553420.

Filing Date: 19<sup>th</sup> July 2012.

Contract No.: FA8650-13-C-6378

(5)

U.S. Patent 9269846 entitled "Phototransistor for the Detection of Photon Flux Below Its Photon Shot Noise" issued on 23<sup>rd</sup> February 2016

Inventor: Jie Yao, Ph.D.

U.S. Application No.: 14181879.

Filing Date: 17<sup>th</sup> February 2014.

Contract No.: FA8650-13-C-6378

(6)

U.S. Provisional Patent Application 62266935 entitled "A phototransistor -- PtCbJ"

Inventor: Jie Yao, Ph.D.