

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	TOMASZ BROZEK	08/21/2018
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	PDF SOLUTIONS, INC.	
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<b>State/Country:</b>	CALIFORNIA	
<b>Postal Code:</b>	95110	
<b>PROPERTY NUMBERS Total: 2</b>		
	<b>Property Type</b>	<b>Number</b>
	<b>Application Number:</b>	15997411
	<b>Application Number:</b>	62514199
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<b>NAME OF SUBMITTER:</b>	DESIREE ORTIZ	
<b>SIGNATURE:</b>	/desireeortiz/	
<b>DATE SIGNED:</b>	08/24/2018	
	This document serves as an Oath/Declaration (37 CFR 1.63).	
<b>Total Attachments: 2</b>		
source=PDFS-0129-u1 combined declaration and assignment (part 1) - signed#page1.tif		
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**Combined Inventor's Declaration, Assignment, and Designation  
of PDF Solutions, Inc. as Applicant for Patent**

Inventorship

I, as the undersigned inventor or one of the undersigned joint inventors, hereby declare as follows with respect to U.S. Patent Application Serial No. 15/997,411, entitled "METHOD AND APPARATUS FOR DIRECT TESTING AND CHARACTERIZATION OF A THREE DIMENSIONAL SEMICONDUCTOR MEMORY STRUCTURE," filed June 4, 2018, (hereafter referred to as "the application" or "the above-identified application") which application claims the benefit of U.S. Provisional Patent Application Serial No. 62/514,199 filed June 2, 2017:

The above-identified application was made or authorized to be made by me.

1. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

Assignment of Rights

Pursuant to legal obligation, and for good and valuable consideration, both of which are hereby acknowledged, I **hereby assign and/or acknowledge my previous assignment of** all of my right, title, and interest in the application and any invention or patent application for any invention disclosed therein, as well as any non-provisional, continuation, divisional, continuation-in-part, reexamination, reissue, extension, or foreign counterpart of any of the foregoing, to **PDF Solutions, Inc., a Delaware corporation, having a principal place of business in San Jose, California** (hereafter, "PDF").

Designation of PDF as Applicant

I hereby acknowledge that the foregoing assignment will enable PDF to file and prosecute patent applications, as the applicant, for any of the assigned applications/inventions. I consent to PDF's use of my name as inventor or joint inventor on patents and patent applications covered by the

assignment herein, and I hereby designate PDF as my attorney-in-fact with respect to any such patents or patent applications.

  
Tomasz Brozek (Aug 21, 2018)

Tomasz Brozek

Aug 21, 2018

Date