

## 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>
AHMED ELKHOLY	12/17/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	PHASEBITS, INC.
<b>Street Address:</b>	60 HAZELWOOD DR.
<b>City:</b>	CHAMPAIGN
<b>State/Country:</b>	ILLINOIS
<b>Postal Code:</b>	61820
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16213598
<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>	
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<b>ATTORNEY DOCKET NUMBER:</b>	PB-1
<b>NAME OF SUBMITTER:</b>	STUART T AUVINEN
<b>SIGNATURE:</b>	/Stuart T Auvinen 36435/
<b>DATE SIGNED:</b>	12/17/2018
<b>Total Attachments: 2</b>	
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## ASSIGNMENT OF INVENTION AND PATENT APPLICATION

For value received,

Ahmed Elkholy, of Savoy, Illinois,

(hereinafter ASSIGNOR), hereby sells, assigns, transfers, and sets over unto

PhaseBits, Inc. of Champaign, Illinois,

and its successors or assigns (hereinafter ASSIGNEE) 100 % of the following:

(A) ASSIGNOR'S right, title and interest in and to any and all inventions in the application entitled "Adaptive Nonlinearity Identification and Compensation Using Orthogonal Functions in a Mixed Signal Circuit" invented by ASSIGNOR;

(B) the application for United States patent therefor, signed by ASSIGNOR on 12/17/2018, United States Patent and Trademark Office Serial Number 16213598, filed 12/7/2018.

(C) any patent, reexaminations or reissues of any patent that may be granted thereon; and

(D) any applications which are continuations, continuations-in-part, substitutes, or divisions of said application. ASSIGNOR authorizes and requests the Commissioner of Patents and Trademarks to issue any resulting applications and/or patent(s) as follows: 100 % to PhaseBits, Inc..

ASSIGNOR hereby further sells, assigns, transfers, and sets over unto ASSIGNEE, the entire right title, and interest in and to said invention in each and every country foreign to the United States; and ASSIGNOR further conveys to ASSIGNEE all priority rights resulting from the above-identified application for United States patent. ASSIGNOR agrees to execute all papers, give any required testimony and perform other lawful acts, at ASSIGNEE'S expense, as ASSIGNEE may require to enable ASSIGNEE to perfect ASSIGNEE'S interest in any resulting patent of the United States and countries foreign thereto, and to acquire, hold, enforce, convey, and uphold the validity of said patent and reissues and extensions therefor, and ASSIGNEE'S interest therein.

In testimony whereof ASSIGNOR has hereunto set its hand and seal on the date below.

Ahmed Elkholy

Ahmed Elkholy

State: Illinois }  
County: Champaign } ss

Subscribed and sworn to (or affirmed) before me on December 17<sup>th</sup>, 2018 (date)  
by Ahmed Elkholy, proved to me on the basis of satisfactory evidence to be the  
person who appeared before me.

Witness my hand and official seal.

Caleb Wilson  
Notary Public

My Commission Expires 8/21/2022

