502088783 10/09/2012

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ARTHUR ROBERT CALDERBANK	09/30/2012
ADAM N. JACOBVITZ	09/30/2012
DANIEL J. SORIN	10/01/2012

RECEIVING PARTY DATA

Name:	DUKE UNIVERSITY			
Street Address:	OFFICE OF SCIENCE AND TECHNOLOGY			
City:	DURHAM			
State/Country:	NORTH CAROLINA			
Postal Code:	27710			

PROPERTY NUMBERS Total: 1

Property Type	Number			
PCT Number:	US2012057844			

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	DKE.100PCT
NAME OF SUBMITTER:	SARAH J. KNIGHT

Total Attachments: 4

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> PATENT REEL: 029098 FRAME: 0736

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ASSIGNMENT

WHEREAS, we, ARTHUR ROBERT CALDERBANK, ADAM N. JACOBVITZ, and DANIEL J. SORIN, residing at the addresses indicated below, have invented certain new and useful improvements for which an International Patent Application was:

filed on September 28, 2012, Serial No. PCT/US12/57844,

entitled, <u>SYSTEMS FOR AND METHODS OF EXTENDING LIFETIME OF</u> NON-VOLATILE MEMORY (the "Invention").

WHEREAS, DUKE UNIVERSITY, Office of Science and Technology, Durham, North Carolina, 27710 is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent which may be granted therefor in the United States and in any and all foreign countries;

NOW, THEREFORE, in view of good and valuable consideration, the sufficiency and receipt of which is hereby acknowledged, we, the undersigned, have sold, assigned, and transferred, and by these presents do sell, assign, and transfer, unto said DUKE UNIVERSITY, its successors and assigns, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title, and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in any and all divisions, reissues, continuations, and extensions thereof.

We hereby authorize and request the Patent Office Officials in the United States and in any and all foreign countries to issue any and all of said Letters Patent, when granted, to said DUKE UNIVERSITY, as the assignee of the entire right, title and interest in and to the same, for the sole use and behalf of said DUKE UNIVERSITY, its successors and assigns.

FURTHER, we agree that we will communicate to said DUKE UNIVERSITY, or its representatives, any facts known to me respecting said invention; testify in any legal proceedings; sign all lawful papers; execute all divisional, continuation, substitution, renewal, and reissue applications; execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said DUKE UNIVERSITY; make all rightful oaths; and generally do everything possible to aid the said DUKE UNIVERSITY, its successors and assigns, to obtain and enforce proper protection for said invention in the United States and in any and all foreign countries.

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		Address:	1411 Wood	and Drive
		radioss.	Durhan	and the second s
			NC 27	
		•		
WITNESS:				
Signature:	any 2		-	
Printed Name:	Adam Jaco	obvitz	-	
Date:	Adam Jaco 9/30/20	17		

IN TESTIN	MONY WHEREOF, I have hereunto set my hand this 30th day of
September	, 2012.
	Signature: Onfile
	ADAM N. JACOBVITZ 1233 Belveley St-Apt (Address: **Manual Address*** Address*** ADAM N. JACOBVITZ ADAM N. JACOBVITZ
	Durham, NC 27705
WITNESS:	
Signature:	
Printed Name:	A. K. CALDGEBANIC.
Date:	September 30, 2012

IN TESTIMONY	WHEREOF,	I have	hereunto	set	my	hand	this	L St-	day	of
oct ser	2012.									

Signature:

DANIEL J. SORIN

Address:

2500 W. Wilson St. Durham, NC 27705

WITNESS:

Signature:

Printed Name:

Date:

JOHN A. BOARD, JR.

1 OCTOBER 2012

RECORDED: 10/09/2012