502845771 06/10/2014

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
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SARAH L. KIEWEG	05/20/2014
TODD MCDONALD	05/23/2014

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14236418

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ATTORNEY DOCKET NUMBER:	0075-0001US1
NAME OF SUBMITTER:	JEFFREY K. MILLS
SIGNATURE:	/Jeffrey K. Mills, Reg. No. 56,413/
DATE SIGNED:	06/10/2014

Total Attachments: 3

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PATENT 502845771 REEL: 033069 FRAME: 0147

ASSIGNMENT - WORLDWIDE

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto

University of Kansas 245 Strong Hall 1450 Jayhawk Boulevard Lawrence, KS 66045

its successors and assigns, the entire right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries in and to the invention in

AUTOMATED VITRIFICATION DEVICE

as set forth in this United States Patent Application

	executed concurrently herewith
	executed on
X	U.S. Patent Application No. 14/236,418 filed
	January 31, 2014 .

said application for United States Letters Patent, including all divisional, renewal, substitute, continuation and Convention applications based in whole or in part upon said inventions or upon said applications, and any and all Letters Patent and reissues and extensions of Letters Patent granted for said inventions or upon said applications and every priority right that is or may be predicated upon or arise from said inventions, said applications, and said Letters Patent; said Assignce being hereby authorized to file patent applications in any or all countries on any or all said inventions in the name of the undersigned or in the name of said Assignee or otherwise as said Assignee may deem advisable, under the International Convention or otherwise; the Commissioner of Patents and Trademarks of the United States of America being hereby authorized to issue or transfer all said Letters Patent to said Assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other right theretofore given, and that the undersigned will do all acts reasonably serving to ensure that the said inventions, patent applications and Letters Patent shall be held and enjoyed by said Assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to said Assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, and lawful affidavits in form and substance which may be requested by said Assignee, to furnish said Assignee with all facts relating to said inventions or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may be of said inventions, and to testify in any proceedings relating to said inventions, patent applications and Letters Patent.

> PATENT REEL: 033069 FRAME: 0148

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NAMES AND SIGNATURES OF INVENTORS			
Name: S. Samuel KIM	Signature:	Date: 2-25-14	
Name: Sarah L. KIEWEG	Signature: Mulllu	Date: 5-20 - 14	
Name: Todd MCDONALD	Signature:	Date:	
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Name: Bothny Scothorn	Signature: BHACTOO	Date: 5/20/14	

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4829-4011-2920, v. 1

Melissa James Notary Public State of Kansas My Appointment Expires on 12/

> **PATENT REEL: 033069 FRAME: 0149**

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My Appl Expires 4.9

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NAMES AND SIGNATURES OF INVENTORS			
Name: Samuel S. KIM	Signature:	Date:	
Name: Sarah L. KIEWEG	Signature:	Date:	
Name: Todd MCDONALD	Signature: Joff 18 1 Signature	Date: 5/21/2014	
Name:	Signature:	Date:	
NAMES AND SIGNATURES OF WITNESSES			
Name:	Signature:	Date:	
Name:	Signature:	Date:	

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BRIAN FRANKS

Botsey Public

State of Kansas

My Commission Expires 11-12-17

PATENT REEL: 033069 FRAME: 0150

RECORDED: 06/10/2014