505445457 04/25/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5492258

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MARGARET F. LOSPINUSO	02/13/2019
SAKUNTHALA HARSHAVARDHANA	02/17/2019
LAURA J. GLENDENNING	03/04/2019
KATHLEEN N. MCGILL	03/05/2019
ROBERT M. SENG	04/19/2019
TZUHSIU CHIOU	02/12/2019
STERLING E. VINSON	04/01/2019

RECEIVING PARTY DATA

Name:	JOHNS HOPKINS UNIVERSITY
Street Address:	34TH AND CHARLES STREET
City:	BALTIMORE
State/Country:	MARYLAND
Postal Code:	21218

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16273209

CORRESPONDENCE DATA

Fax Number: (240)228-5254

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.

Phone: 240-228-4386

Email: eileen.sorensen@jhuapl.edu

Correspondent Name: NOAH J. HAYWARD

Address Line 1: 11100 JOHNS HOPKINS ROAD

Address Line 2: M/S 7-127

Address Line 4: LAUREL, MARYLAND 20723-6099

ATTORNEY DOCKET NUMBER:	4850-SPL
NAME OF SUBMITTER:	NOAH J. HAYWARD
SIGNATURE:	/Noah J. Hayward/
DATE SIGNED:	04/25/2019

505445457 REEL: 048994 FRAME: 0556

This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 7

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Title of Invention	Apparatus and Method for Identifying	Constituent Parts of Software Binaries
As the below name	ed inventor, I hereby declare that:	
This declaration is directed to:	The attached application, or United States application or PCT intern filed on February 12, 2019	national application number 16/273,209
The above-identifi	ied application was made or authorized to b	be made by me.
I believe that I am	the original inventor or an original joint in	ventor 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.		
WHEREAS, The Johns Hopkins University, a corporation organized and existing under the laws of the State of Maryland and having its principal place of business at Baltimore, Maryland, hereinafter referred to as the ASSIGNEE, desires to acquire the entire right, title and interest in and to said invention and to any Letters Patent that may be generated therefore in the United States and its territories and in any and all foreign countries.		
NOW, THEREFORE, in consideration of my employment by the ASSIGNEE, I do hereby sell, assign and transfer to the ASSIGNEE the entire right, title and interest in and to said invention in the United States and its territories and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted for said invention in the United States and its territories and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.		
I hereby authorize and request the Patent Office Officials in the United States and its territories and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its successors and assigns, to the full end of the term for which said Letters Patent may be granted.		
I hereby further agree to make, execute and deliver to the ASSIGNEE, its successors, assigns and legal representatives, upon request but at the expense of the ASSIGNEE, any and all papers, documents, affidavits, statements or other instruments that may be necessary in the prosecution of the aforesaid application, and of any United States or foreign applications, and of any divisions, reissues, continuations, substitutions and renewals of said application, or applications for reissues of said Letters Patents, and to aid the ASSIGNEE, its successors, assigns and legal representatives in every way in protecting said invention as may be requested, provided, however that I shall not have to pay any expenses arising from extending such assistance.		
LEGAL NAME O	F INVENTOR	
TO VECTOR.	ret F. Lospinuso	
Signature: Mai	yst Peri	Date: 13 Fd 2019
,		JHU/APL Docket No.: 4850-SPL

Title of Invention	Apparetus and Method for Identifying Constituent Parts of Software Binaries
As the below n	amed inventor, I hereby declare that:
This docuration is detected to:	The associated application, or U.T. international application number <u>16/2/3/2/9</u> Solid on <u>Edmany 12, 2019</u>
The above-de	cified application was made or authorized to be made by me.
I liziiese that I	am the original inventor or an original joint inventor of a claimed invention in the application.
	whedge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 isonment of not more than five (5) years, or both.
Maryland and I ASSIGNEE, d	he Johns Hopkins University, a corporation organized and existing under the laws of the State of naving its principal place of business at Baltimore, Maryland, bereinafter referred to as the spires to acquire the entire right, title and inserest in and to said asvention and to any Lesters Patent sensed therefore in the United States and its territories and in any and all foreign countries.
to the ASSION and in all forci gramed for said	FORE, in consideration of my employment by the ASSIGNEE, I do hereby sell, assign and transfer EE, the entire right, title and interest in and to said invention in the United States and its territories on countries and the entire right, title and interest in and to any and all Letters Patent which may be I invention in the United States and its territories and in any and all foreign countries and in and to islows, releases, continuations, substitutions and renewals thereof.
forcign countri entire right, titl	ize and request the Patent Office Officials in the United States and its territories and any and all es to insue any and all of said Letters Patent, when granted, to said ASSKINEE as the assignee of my e and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its successors and full end of the term for which said Letters Patent may be granted.
representatives statements or o United States of said application assigns and leg	ragree to make, execute and deliver to the ASSIGNEE, its successors, assigns and legal, upon request but at the expense of the ASSIGNEE, any and all papers, documents, affidavits, then may be necessary in the prosecution of the atmessed application, and of any of foreign applications, and of any divisions, reisones, continuations, substitutions and renewals of a or applications for reisones of said Letters Patents, and to aid the ASSIGNEE, its successors, all reprosentatives in every way in protecting said invention as may be requested, provided, however have to pay any expenses utsiing from extending such assistance.
LEGAL NAM	E OF INVENTOR
inventor: Sal	unitala Harshavordhana
Signature: [1. SA SAN 1942 - 1945 - 1941 - 1941 - 1941 - 1941 - 1941 - 1941 - 1941 - 1941 - 1941 - 1941 - 1941 - 1941 - 19
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2833/APL Docket No.: 4830/891.

Title of Invention	Apparatus and Method for Identifying Constituent Parts of Software Binaries	
As the below nan	ned inventor, I hereby declare that:	
This declaration is directed to:	The attached application, or United States application or PCT international application number 16/273,209 filed on February 12, 2019	
The above-identi	fied application was made or authorized to be made by me.	
I believe that I an	n the original inventor or an original joint inventor of a claimed invention in the application.	
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I hereby authorize and request the Patent Office Officials in the United States and its territories and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its successors and assigns, to the full end of the term for which said Letters Patent may be granted.		
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LEGAL NAME (OF INVENTOR	
Inventor: Laura	a J. Glendenning	
Signature: 4	wa Kenderning Date: 3/4/19	
1	JHU/APL Docket No.: 4850-SPL	

Title of Invention	Apparatus and Method for Identifying Constituent Parts of Software Binaries	
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I believe that I am	the original inventor or an original joint inventor of a claimed invention in the application.	
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LEGAL NAME OF INVENTOR		
Inventor: Kathle	en N. McGill	
Signature:	Mun 11 MeSell Date: 3/5/19_	
	JHU/APL Docket No.: 4850-SPL	

PATENT

REEL: 048994 FRAME: 0561

Title of Invention	Apparatus and Method for Identifying	Constituent Parts of Software Binaries	
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The above-identifi	ed application was made or authorized to	be made by me.	
I believe that I am	the original inventor or an original joint in	eventor of a claimed invention in the application.	
I hereby acknowle by fine or imprisor	dge that any willful false statement made in the first more than five (5) years, or b	in this declaration is punishable under 18 U.S.C. 1001 oth.	
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LEGAL NAME O	FINVENTOR		
Inventor: Robert	M. Seng		
Signature:	14	Date: 4/19/19	
	***	JHU/APL Docket No.: 4850-SPL	

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LEGAL NAME OF INVENTOR		
Inventor: Tzuhsi	u Chiou	
Signature:	Her Class	Date: 2/12/19
		JHU/APL Docket No.: 4850-SPL

Title of Invention	Apparatus and Method for Identifyi	ng Constituent Parts of Software Binaries	
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LEGAL NAME C			
Inventor: Sterlin	ng E. Vinson		
Signature:	Dú .	Date: 04/01/2019	

JHU/APL Docket No.: 4850-SPL

PATENT REEL: 048994 FRAME: 0564

RECORDED: 04/25/2019