503278916 04/24/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3325534

SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	EXECUTIVE ORDER 9424, CONFIRMATORY LICENSE		

CONVEYING PARTY DATA

Name	Execution Date
COLUMBIA UNIVERSITY	06/18/2014

RECEIVING PARTY DATA

Name:	National Science Foundation		
Street Address:	4201 Wilson Blvd		
Internal Address:	Room 1265		
City:	Arlington		
State/Country:	VIRGINIA		
Postal Code:	22230		

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	14344458	

CORRESPONDENCE DATA

Fax Number: (703)292-9041

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.

Email: nsfpatents@nsf.gov

NATIONAL SCIENCE FOUNDATION Correspondent Name:

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Address Line 2: **ROOM 1265**

Address Line 4: ARLINGTON, VIRGINIA 22230

NAME OF SUBMITTER:	DANA THIBODEAU
SIGNATURE:	/DMT/
DATE SIGNED:	04/24/2015

Total Attachments: 1 source=543#page1.tif

> **REEL: 035501 FRAME: 0168** 503278916

PATENT

License to the United States Government

Sign and submit the	e executed docum	ent to the appropriate funding a	igency (e.g. upload in iEdi	lson).	
Invention Title: 5)	/stems and me	thods for detecting	rsturn-oriented p	rograms	ning (ROF) attacks
using specula	tive code ex	ecution			
Inventor(s): Ange	los D. Kerom	ytis, Michalia Polye	ronakis		
U.S. Filling/Issue (Date: 3 / 13 /	<u> 2514</u>			
Patent or Applical	tion Serial No.: _	14/344,453			
Grant/Contract No	umber(s): 09143	112, FA8650-10-C-7024	, FAE750-10-2-025	<u>3</u>	
Foreign Application	ons filed/intended	d in (countries):			
at 37 CFR 401.14 identified grant of the nonexclusted State continuations 2. All other right regulations the	4, FAR 52.227- r contract award usive, nontransfe is the invention in part, and in a ts acquired by the tet are applicable		plicable) which are incorement. This docum license to practice or lipplication and in any is sues granted thereon the above identified g	luded an ient is co have pra- and all d iroughou rant/cont	nong the terms of the abovenfirmatory of: eticed for or on behalf of the ivisions, continuations, and the world; and ract award and the laws an
The Government application.	i is hereby gran	ted an irrevocable power t	o inspect and make c	opies of	the above-identified pater
Signed this	N	day of <u>June</u>	. 20 \		ø
					Adh
(Instit	utional Business	Official)	(Signature)		
Title For COLUMBIA UNIV NEW YORK MORNINGSIDE (Grantee/Contractor Organization)		***************************************	Scot G Hamilton Senior Director Columbia Technology Ventures		
	rary 80 6308 Isiness Address)	535 W llöth St New	York, NY 18827 UN	ITRD ST	ATRS

PATENT REEL: 035501 FRAME: 0169

RECORDED: 04/24/2015