

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
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EPAS ID: PAT5364266

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MIGUEL A. ARROYO	08/15/2017
LAKSHMINARASIMHAN SETHUMADHAVAN	08/15/2017
JONATHAN WEISZ	08/16/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK
<b>Street Address:</b>	412 LOW MEMORIAL LIBRARY, 535 W. 116TH STREET
<b>City:</b>	NEW YORK
<b>State/Country:</b>	NEW YORK
<b>Postal Code:</b>	10027
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15618019
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<b>NAME OF SUBMITTER:</b>	LISA WALSH
<b>SIGNATURE:</b>	/LISA WALSH/
<b>DATE SIGNED:</b>	02/07/2019
<b>Total Attachments: 3</b>	
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source=70020-013001-Assignment#page3.tif	

**ASSIGNMENT OF PATENT APPLICATION**

WHEREAS, Miguel A. ARROYO of 100 w. 93<sup>RD</sup> St., Apt. 18A, New York, NY 10025; Lakshminarasimhan SETHUMADHAVAN of 412 Low Memorial Library, 535 W. 116<sup>th</sup> Street, Mail Code 465 CSB, New York, NY 10027; and Jonathan WEISZ of 42 W. 13<sup>th</sup> St., Apt. 2A, New York, NY 10011; hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: SECURED CYBER-PHYSICAL SYSTEMS

Filing Date: June 8, 2017

Application No.: 15/618,019 and

WHEREAS, The Trustees of Columbia University in the City of New York, a New York corporation, having a place of business at 412 Low Memorial Library, 535 W. 116<sup>th</sup> Street, New York, New York 10027, hereinafter referred to as "ASSIGNEE," is desirous of acquiring an interest in the invention and application and in any U.S. Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents does assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on any patent application claiming priority from the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that Assignors will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including applications and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

Dated: 8/15/17 \_\_\_\_\_

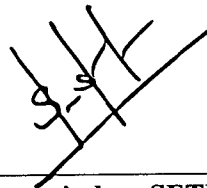


**Miguel A. ARROYO**

WITNESSED BY: \_\_\_\_\_ Date: \_\_\_\_\_

WITNESSED BY: \_\_\_\_\_ Date: \_\_\_\_\_

Dated: 15 August 2017 \_\_\_\_\_



**Lakshminarasimhan SETHUMADHAVAN**

WITNESSED BY: \_\_\_\_\_ Date: \_\_\_\_\_

WITNESSED BY: \_\_\_\_\_ Date: \_\_\_\_\_

Dated: \_\_\_\_\_

**Jonathan WEISZ**

WITNESSED BY: \_\_\_\_\_ Date: \_\_\_\_\_

WITNESSED BY: \_\_\_\_\_ Date: \_\_\_\_\_

Dated:

**Miguel A. ARROYO**

WITNESSED BY: \_\_\_\_\_ Date: \_\_\_\_\_

WITNESSED BY: \_\_\_\_\_ Date: \_\_\_\_\_

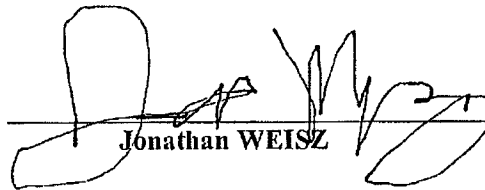
Dated:

**Lakshminarasimhan SETHUMADHAVAN**

WITNESSED BY: \_\_\_\_\_ Date: \_\_\_\_\_

WITNESSED BY: \_\_\_\_\_ Date: \_\_\_\_\_

Dated: 8/16/2017

  
Jonathan WEISZ

WITNESSED BY: \_\_\_\_\_ Date: \_\_\_\_\_

WITNESSED BY: \_\_\_\_\_ Date: \_\_\_\_\_