PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JAMES COSENTINO	08/13/2015
MAGDALENA ZHAN	08/11/2015
ABHIJEET MAGDUM	09/05/2015
MATTHEW COMMENS	08/18/2015

RECEIVING PARTY DATA

Name:	SAS IP, INC.
Street Address:	1019 E. LINCOLNWAY
City:	CHEYENNE
State/Country:	WYOMING
Postal Code:	82001

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14797551

CORRESPONDENCE DATA

Fax Number: (216)579-0212

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: (216) 586-1402

Email: skoston@jonesday.com

Correspondent Name: JONES DAY

Address Line 1: 901 LAKESIDE AVENUE

Address Line 2: NORTH POINT

Address Line 4: CLEVELAND, OHIO 44114

ATTORNEY DOCKET NUMBER:	406672-625085
NAME OF SUBMITTER:	MATTHEW W. JOHNSON
SIGNATURE:	/MATTHEW W. JOHNSON/
DATE SIGNED:	09/17/2015

Total Attachments: 5

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PATENT REEL: 036588 FRAME: 0153

ASSIGNMENT

WHEREAS, one or more inventions have been made by the undersigned in

Encapsulated Simulation Components

and are the subject of a nonprovisional patent application filed in the United States Patent and Trademark Office on July 13, 2015, under Application Serial No. 14/797,551, which application is identified as Jones Day Docket No. 406672-625085.

WHEREAS, SAS IP, Inc., a corporation of Wyoming, having a principal place of business at 1019 E. Lincolnway, Cheyenne, Wyoming 82001, hereinafter referred to as "assignee", is desirous of acquiring all right, title, and interest throughout the world in, to, and under said inventions and patent rights therefor.

NOW, THEREFORE, be it known that, for valuable consideration, the receipt and sufficiency of which are hereby acknowledged, all right, title, and interest, in the United States and throughout the world, in, to and under said inventions and all patents, patent applications, patent rights, and inventor's certificates thereof, therefor, and therein, including without limitation said application for patent in the United States, all divisions and continuations thereof, all patents which may be granted thereon, all reissues and extensions thereof, all right to sue for past infringement thereunder, all patents which may be granted for said inventions by states or nations other than the United States, or by other authority, entity, or organization, and all applications therefor, have been and are hereby sold, assigned, transferred, and delivered unto assignee, its successors and assigns; and it is covenanted and agreed by the undersigned, and for executors, administrators, and legal representatives of the undersigned, that at assignee's request any and all applications, affidavits, assignments, and other instruments will be made, executed, and delivered as may be necessary, or desirable to secure for or vest in assignee, its successors or assigns, any improvement, inventions, right, title, interest, application, patent, patent right or other right or property covered by this assignment, and the United States Commissioner of Patents and Trademarks is hereby requested and authorized to issue any and all United States patents granted on any of said applications to assignee as owner of the entire right, title, and interest in, to, and under the same, and appropriately empowered officials of foreign countries are hereby authorized to issue any letters patent granted on any of said applications to assignee as owner of the entire right, title and interest in, to, and under the same.

The undersigned hereby grants the firm of Jones Day the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, this Assignment has been executed below by the undersigned:

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James Carry	<u>A .g . 13</u> , 2015.
JAMES COSENTINO	Date
Residing and having a Post Office Address:	90 Woodhaven Drive Pittsburgh, PA 15228
STATE OF PENNSYLVANIA COUNTY OF AFFECTIONY	} \$5. }
13th day of DURUST	OSENTINO, known to me, appeared before me this
(Notarial Seal)	Notary Public
	COMMONWEALTH OF PENNSYLVANIA NOTARIAL SEAL Michelle Pichora, Notary Public Cacil Tarp., Washington County My Commission Expires May 19, 2018 BENSER, PENNSYLVANIA ASSOCIATION OF NOTARIES

	S/// /	
MÁGDAĽENA Ż HAN	Date	
Residing and having a Post Office Address:		
	7005 Bennington Woods Drive Pittsburgh, PA 152337	
STATE OF PENNSYLVANIA }		
COUNTY OF ALLEGHENY) ss.		
The above name MAGDALENA ZHAN, known to me, appeared before me this day of, 2015 and acknowledged that the foregoing instrument was executed as his free act and deed for the uses and purposes therein set forth.		
(Notarial Seal)	Muculle Palasa Notary Public	
	COMMONWEALTH OF PENNSYLVANIA MOTAHIAL SEAL Michelle Pilhora, Motary Public Cacil Tap., Washington County By Commission Expires May 19, 2018 STUBIN, PERSYLVANIA ASSOCIATION OF MOTARMS	

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ABNIJHET MAGDUM
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<u>09 | 05 | ;</u> 2015

Residing and having a Post Office Address:

3208 Tuscan Park Ct. San Jose, CA 95135

STATE OF CALIFORNIA

ss.

COUNTY OF SANTA CLARA

(Notarial Seal)

Notary Public



MATTHEW COMMENS	8/13, 2015.
Residing and having a Post Office Address:	509 Grove Street Sewickley, PA 15143
STATE OF PENNSYLVANIA } \(\omega \Geaughara \) s COUNTY OF ALLEGHENY }	:s.
18-th day of <u>RUBUST</u>	COMMENS, known to me, appeared before me this, 2015 and acknowledged that the foregoing and deed for the uses and purposes therein set forth
(Notarial Seal)	Mucull Pickury Notary Public
COSSMONWEALTH OF PENNSYLVANIA NOTARIAL SEAL Michelle Pictions, Notary Public Cecil Twp., Washington County My Commission Expires May 19, 2018 EESER, PENNSYLVANIA ASSOCIATION OF MOTARES	

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