502636182 01/15/2014

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2682790

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HARRINGTON HUNTER HARKNESS	01/06/2014
DAN COJOCARU	01/06/2014
DANIEL ALEXANDER REECE	01/13/2014

RECEIVING PARTY DATA

Name:	DASSAULT SYSTEMES SIMULIA CORP.
Street Address:	166 VALLEY STREET
City:	PROVIDENCE
State/Country:	RHODE ISLAND
Postal Code:	02909-2499

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14138706

CORRESPONDENCE DATA

 Fax Number:
 (978)341-0136

 Phone:
 978-341-0036

 Email:
 mstanizzi@hbsr.com

Correspondence will be sent via US Mail when the email attempt is unsuccessful.

Correspondent Name: MARY LOU WAKIMURA

Address Line 1: 530 VIRGINIA ROAD, PO BOX 9133

Address Line 2: HAMILTON, BROOK, SMITH & REYNOLDS, P.C. Address Line 4: CONCORD, MASSACHUSETTS 01742-9133

ATTORNEY DOCKET NUMBER:	4412.1017-000
NAME OF SUBMITTER:	MARIA STANIZZI
Signature:	/Maria Stanizzi/
	PATENT

502636182 REEL: 031973 FRAME: 0451

Date:	01/15/2014
Total Attachments: 9 source=44121017000Assignment#page1.tif source=44121017000Assignment#page2.tif source=44121017000Assignment#page3.tif source=44121017000Assignment#page4.tif source=44121017000Assignment#page5.tif source=44121017000Assignment#page7.tif source=44121017000Assignment#page8.tif source=44121017000Assignment#page8.tif source=44121017000Assignment#page9.tif	

PATENT REEL: 031973 FRAME: 0452

Joint

ASSIGNMENT

WHEREAS, we, Harrington Hunter Harkness, Dan Cojocaru and Daniel Alexander Reece, have invented a certain improvement in CAD-Based Initial Surface Geometry Correction described in an application for Patent,

the specification of which is about to be filed in the United States Patent Office

Ш	the specification of which is about to be filed in the United States Patent Office (use for utility (37 CFR § 1.53(b)) and design filings only);
	is about to be filed in the United States Patent Office as a Provisional Application
\boxtimes	the specification of which is United States Application No. 14/138,706 filed December 23, 2013;
	the specification of which is a Patent Cooperation Treaty Application, International Application No. [], filed , which designates the United States of America [and is assigned United States Application No.];
	which was patented under United States Patent No. [].

WHEREAS, **Dassault Systemes Simulia Corp.** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the **State of Rhode Island**, and having a usual place of business at **166 Valley Street**, **Providence**, **RI 02909-2499** desires to confirm its interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for any and all related provisional and nonprovisional, international and national phase applications, including any and all substitution, reissue, divisional, continuation, and continuation-in-part applications, and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein; we hereby expressly authorize the filing of an International Patent Application under the

1547492.v1

PATENT REEL: 031973 FRAME: 0453 Patent Cooperation Treaty which corresponds to and claims the priority of the above-identified application;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any future applications including substitution, reissue, divisional or continuation, continuation-in-part applications, and all related provisional and nonprovisional, international and national phase applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

<i>2</i> •		
Inventor Assert Assert	Date	1/6/2014
Harrington Hunter Harkness		
Address 6 Hunter Lane		
Canton, Massachusetts 02021		
Witness Signature Z	****************	
Print Witness Name William J. Gaines		
Address /3 5/40 a.r. 57		
COH4SSET, PM DZUZS	**************	
<u> </u>		
Print Witness Name KRISTEN CLARKSON		
Address 170 CROSSING DR. APT 302	******	
CUMBERLAND RI 02864		

Inventor		Date	
	Dan Cojocaru		
Address	79 Betsey Williams Drive		
	Providence, Rhode Island 02905		
Witness Signature			
	ıe		

Witness Signature			
Print Witness Nam			
Address			
Invantar		Doto	
mventor	Daniel Alexander Reece	Date	
Address	12075 Timberlake Dr.		
	Cincinnati, Ohio 45249		
Witness Signature			
	e		
	Address		
Witness Signature			
-			
	e		
Print Witness Nam			

Joint

<u>ASSIGNMENT</u>

WHEREAS, we, Harrington Hunter Harkness, Dan Cojocaru and Daniel Alexander Reece, have invented a certain improvement in CAD-Based Initial Surface Geometry Correction described in an application for Patent,

the specification of which is about to be filed in the United States Patent Office (use for utility (37 CFR § 1.53(b)) and design filings only);

the specification of which is United States Application No. 14/138,706 filed December 23, 2013;

is about to be filed in the United States Patent Office as a Provisional Application;

the specification of which is a Patent Cooperation Treaty Application,
International Application No. [], filed , which designates the United
States of America [and is assigned United States Application No.];

which was patented under United States Patent No. [].

WHEREAS, Dassault Systemes Simulia Corp. (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of Rhode Island, and having a usual place of business at 166 Valley Street, Providence, RI 02909-2499 desires to confirm its interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for any and all related provisional and nonprovisional, international and national phase applications, including any and all substitution, reissue, divisional, continuation, and continuation-in-part applications, and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein; we hereby expressly authorize the filing of an International Patent Application under the

1547492.v1

Patent Cooperation Treaty which corresponds to and claims the priority of the above-identified application;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any future applications including substitution, reissue, divisional or continuation, continuation-in-part applications, and all related provisional and nonprovisional, international and national phase applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

Inventor		Date	
	Harrington Hunter Harkness		
Address 6 H	unter Lane		
Can	ton, Massachusetts 02021		
Witness Signature			
Address			
Witness Signature			romania de manada de la calencia de
Address			

Inventor La Go	Date
Dan Cojocaru	
Address 79 Betsey Williams Drive	
Providence, Rhode Island 02905	
Witness Signature Hangili	
Print Witness Name GEORGE AUG	
Address 4 CURRAW ROAD	
CHMBERLAND, RI 028	64
Witness Signature	
Print Witness Name Pavel A Box	Ltinov
Address 7 Crane Rd, Walpo	le, MA Ø2881
, ,	
	WALLOW CO.
Inventor	Date
Daniel Alexander Reece	
Address 12075 Timberlake Dr.	
Address 12075 Timberlake Dr. Cincinnati, Ohio 45249	
Cincinnati, Ohio 45249	
Cincinnati, Ohio 45249 Witness Signature	
Cincinnati, Ohio 45249 Witness Signature Print Witness Name	
Cincinnati, Ohio 45249 Witness Signature Print Witness Name	
Cincinnati, Ohio 45249 Witness Signature Print Witness Name Address	
Cincinnati, Ohio 45249 Witness Signature Print Witness Name Address Witness Signature	
Cincinnati, Ohio 45249 Witness Signature Print Witness Name Address Witness Signature Print Witness Name	

Joint

<u>ASSIGNMENT</u>

WHEREAS, we, Harrington Hunter Harkness, Dan Cojocaru and Daniel Alexander Reece, have invented a certain improvement in CAD-Based Initial Surface Geometry Correction described in an application for Patent,

the specification of which is about to be filed in the United States Patent Office

(use for utility (37 CFR \S 1.53(b)) and design filings only);
is about to be filed in the United States Patent Office as a Provisional Application;
the specification of which is United States Application No. 14/138,706 filed December 23, 2013;
the specification of which is a Patent Cooperation Treaty Application, International Application No. [], filed , which designates the United States of America [and is assigned United States Application No.];
which was patented under United States Patent No. [].

WHEREAS, Dassault Systemes Simulia Corp. (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of Rhode Island, and having a usual place of business at 166 Valley Street, Providence, RI 02909-2499 desires to confirm its interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for any and all related provisional and nonprovisional, international and national phase applications, including any and all substitution, reissue, divisional, continuation, and continuation-in-part applications, and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein; we hereby expressly authorize the filing of an International Patent Application under the

1547492.v1

Patent Cooperation Treaty which corresponds to and claims the priority of the above-identified application;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any future applications including substitution, reissue, divisional or continuation, continuation-in-part applications, and all related provisional and nonprovisional, international and national phase applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

Inventor		Date	
	Harrington Hunter Harkness		
Address	6 Hunter Lane		
	Canton, Massachusetts 02021		
Witness Signature_			
Print Witness Name			
Witness Signature_		in the day when the Party of th	

Inventor		Date_	
	Dan Cojocaru		
Address	79 Betsey Williams Drive		
	Providence, Rhode Island 02905		
Witness Signature	,		
	ne		
·			
Witness Signature			
	ne		
Inventor_	Vint allered beau	Date	1/13/2014
	Daniel Alexander Reece		,
Address	12075 Timberlake Dr.	11.00	
	Cincinnati, Ohio 45249		
Witness Signature	Paul R. Monson		
Print Witness Nam	17 / 19 <i>//</i>	· · -	
Address 6088	3 Shawna (+		
	nty Township, OH	45044	
	Vince Feopold		
	1/: 1/2		
Address 242			
	ton, OH 45419		

- 3 -