

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5660392

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	VLADIMIR PARFENOV	07/31/2019
	KEVIN ELLIOTT JORDAN	07/30/2019
	ANDRE GOSSELIN	07/28/2019
	STEVEN THOMAS DERTIEN	07/29/2019
	MOSHE JACOB BAUM	07/29/2019
	JAMES E. HEPPELMAN	07/29/2019
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	PTC INC.	
<b>Street Address:</b>	121 SEAPORT BOULEVARD	
<b>City:</b>	BOSTON	
<b>State/Country:</b>	MASSACHUSETTS	
<b>Postal Code:</b>	02210	
<b>PROPERTY NUMBERS Total: 1</b>		
	<b>Property Type</b>	<b>Number</b>
	Application Number:	15146398
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>		
<i>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.</i>		
<b>Phone:</b>	6173453000	
<b>Email:</b>	dmacbrayne@burnslev.com	
<b>Correspondent Name:</b>	BURNS & LEVINSON LLP	
<b>Address Line 1:</b>	125 HIGH STREET	
<b>Address Line 4:</b>	BOSTON, MASSACHUSETTS 02110	
<b>ATTORNEY DOCKET NUMBER:</b>	11333-0045001	
<b>NAME OF SUBMITTER:</b>	PAUL PYSHER	
<b>SIGNATURE:</b>	/Paul Pysher/	
<b>DATE SIGNED:</b>	08/08/2019	
<b>Total Attachments: 16</b>		

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ASSIGNMENT

For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, Vladimir Parfenov, Kevin Elliott Jordan, Steven Thomas Dertien, Moshe Jacob Baum, Andre Gosselin, Stephen Prideaux-Ghee and James E. Heppelman, each individually assign to PTC INC., a corporation formed under the laws of Massachusetts and having a principal place of business at 121 Seaport Boulevard, Boston, MA 02210, and its successors, transferees, and assignees (collectively the "Assignee"), all of our individual and joint right, title, and interest throughout the world in the subject matter (the "Subject Matter") of a patent application that names us as inventors, is titled "AUGMENTED REALITY SYSTEM", and was filed in the United States Patent and Trademark Office on May 4, 2016, as application 15/146,398 (the "Application").

This Assignment assigns (a) the Application and all other applications that may be made for, and all patents, utility models, design registrations, and other rights of exclusion and inventors' certificates for, any of the Subject Matter (collectively the "Applications and Granted Rights") in every country or region including U.S. Provisional Application No. 62/157,234 and PCT Application No. PCT/US16/30720, (b) the right to claim priority based on and the benefit of the filing date of any of the Applications and Granted Rights under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other applicable treaties or conventions, and (c) the right to pursue, collect, and retain in the Assignee's name or otherwise, damages and any other remedies arising from any past, present, or future infringement of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment.

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We will communicate to the Assignee (or at the request of the Assignee to other parties) all known facts in any form relating to the Subject Matter, will execute and provide all oaths and

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\_\_\_\_\_  
Vladimir Parfenov Date: \_\_\_\_\_

Witnessed by:

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

  
Kevin Elliott Jordan Date: 7/30/2019

Witnessed by:

  
Signature: \_\_\_\_\_ Date: 7/30/2019

Print Name: HOPLY E. READY

\_\_\_\_\_  
Steven Thomas Dertien Date: \_\_\_\_\_

Witnessed by:

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

\_\_\_\_\_  
Moshe Jacob Baum Date: \_\_\_\_\_

Witnessed by:

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

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\_\_\_\_\_  
Vladimir Parfenov

Date: \_\_\_\_\_

Witnessed by:

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

\_\_\_\_\_  
Kevin Elliott Jordan

Date: \_\_\_\_\_

Witnessed by:

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

\_\_\_\_\_  
Steven Thomas Dertien

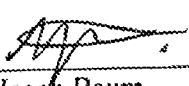
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Witnessed by:

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

  
\_\_\_\_\_  
Moshe Jacob Baum

Date: 7/29/2019

Witnessed by:

Signature:  \_\_\_\_\_

Date: 7/29/2019

Print Name: Mark A Hopkin

Assignment Page 2 of 3

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\_\_\_\_\_  
Andre Gosselin

Date: \_\_\_\_\_

Witnessed by:

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

\_\_\_\_\_  
Stephen Prideaux-Ghee

Date: \_\_\_\_\_

Witnessed by:

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

\_\_\_\_\_  
James E. Heppelman

Date: \_\_\_\_\_

Witnessed by:

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

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Vladimir Parfenov

Date: 7/31/2019

Witnessed by:

Signature: S. Petrosyan

Date: 7/31/2019

Print Name: Seruhi PETROSYAN

\_\_\_\_\_  
Kevin Elliott Jordan

Date: \_\_\_\_\_

Witnessed by:

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

\_\_\_\_\_  
Steven Thomas Dertien

Date: \_\_\_\_\_

Witnessed by:

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

\_\_\_\_\_  
Moshe Jacob Baum

Date: \_\_\_\_\_

Witnessed by:

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

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\_\_\_\_\_  
Vladimir Parfenov

Date: \_\_\_\_\_

Witnessed by:

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

\_\_\_\_\_  
Kevin Elliott Jordan

Date: \_\_\_\_\_

Witnessed by:

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

\_\_\_\_\_  
Steven Thomas Dertien

Date: \_\_\_\_\_

Witnessed by:

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

\_\_\_\_\_  
Moshe Jacob Baum

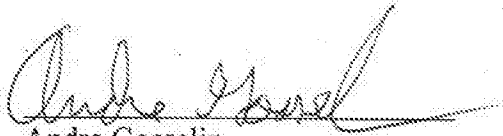
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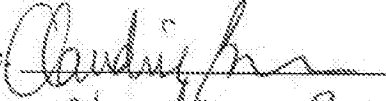
Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

  
Andre Gosselin

Date: 2019/07/28

Witnessed by:

Signature: 

Date: 2019/07/28

Print Name: Claudine Brisson

\_\_\_\_\_  
Stephen Prideaux-Ghee

Date: \_\_\_\_\_

Witnessed by:

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

\_\_\_\_\_  
James E. Heppelman

Date: \_\_\_\_\_

Witnessed by:

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

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\_\_\_\_\_  
Vladimir Parfenov Date: \_\_\_\_\_

Witnessed by:

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

\_\_\_\_\_  
Kevin Elliott Jordan Date: \_\_\_\_\_

Witnessed by:

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

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Steven Thomas Dertien Date: \_\_\_\_\_

Witnessed by:

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

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Moshe Jacob Baum Date: \_\_\_\_\_

Witnessed by:

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

\_\_\_\_\_  
Andre Gosselin

Date: \_\_\_\_\_

Witnessed by:

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

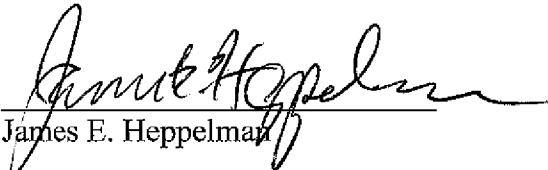
\_\_\_\_\_  
Stephen Prideaux-Ghee

Date: \_\_\_\_\_

Witnessed by:

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

  
James E. Heppelman

Date: 7/29/19

Witnessed by:

Signature: Lisa Habig Date: 7.29.19

Print Name: Lisa Habig

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\_\_\_\_\_  
Vladimir Parfenov

Date: \_\_\_\_\_

Witnessed by:

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

\_\_\_\_\_  
Kevin Elliott Jordan

Date: \_\_\_\_\_

Witnessed by:

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

  
Steven Thomas Dertien

Date: July 29, 2019

Witnessed by:

Signature: Alisa Dertien

Date: July 29, 2019

Print Name: Alisa Dertien

\_\_\_\_\_  
Moshe Jacob Baum

Date: \_\_\_\_\_

Witnessed by:

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

\_\_\_\_\_  
Andre Gosselin

Date: \_\_\_\_\_

Witnessed by:

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Print Name: \_\_\_\_\_

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Witnessed by:

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James E. Heppelman

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