

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MARK ARANA	12/05/2016
BENJAMIN F. HAVEY	01/10/2017
EDWARD DRAKE	12/05/2016
ALEXANDER C. CHEN	12/01/2016
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<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	91521
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15403075
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<b>ATTORNEY DOCKET NUMBER:</b>	16-DIS-281-STUDIO-US-UTL
<b>NAME OF SUBMITTER:</b>	DAVID E. HEISEY
<b>SIGNATURE:</b>	/David E. Heisey/
<b>DATE SIGNED:</b>	01/10/2017
<b>Total Attachments: 5</b>	
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ASSIGNMENT

WHEREAS, MARK ARANA, of Agoura Hills, California, BENJAMIN F. HAVEY, of Burbank, California, EDWARD DRAKE, of Agoura Hills, California, and ALEXANDER C. CHEN, of Los Angeles, California, Assignors, have invented a new and useful **SIMULATION EXPERIENCE WITH PHYSICAL OBJECTS**, for which an application for United States Letters Patent was filed on January 10, 2017 under Serial No. 15/403,075; and

WHEREAS, Assignors believe themselves to be the original, and first co-inventors of the invention disclosed and claimed in the application for Letters Patent; and

WHEREAS, Disney Enterprises, Inc., a Delaware Corporation, having a place of business at 500 South Buena Vista Street, Burbank, California 91521, ("Assignee"), desires to acquire by formal, recordable assignment the entire right, title and interest in and to the invention, the application, and any Letters Patent that might be granted for the invention in the United States and throughout the world;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignors hereby sell, assign and transfer to Assignee, the entire right, title and interest in and to the invention, the application, and any Letters Patent that might be granted for the invention in the United States and throughout the world, including the right to file foreign applications directly in the name of Assignee and to claim for any such foreign applications any priority rights to which such applications are entitled under international conventions, treaties or otherwise.

Further, Assignors agree that, upon request and without further compensation, but at no expense to Assignors, they and their legal representatives and assigns will perform all lawful acts, including the execution of papers and the giving of testimony, that might be necessary or desirable for obtaining, sustaining, reissuing or enforcing Letters Patent in the United States and throughout the world for the invention, and for perfecting, recording or maintaining the title of Assignee, its successors and assigns, to the invention, the application, and any Letters Patent granted for the invention in the United States and throughout the world.

Assignors represent and warrant that they have not granted and will not grant to others any rights inconsistent with the rights granted by this Assignment.

Assignors authorize and request the Commissioner of Patents and Trademarks of the United States and of all foreign countries to issue any Letters Patent granted for the invention, whether on the application or on any subsequently filed division, continuation, continuation-in-part or reissue application, to Assignee, its successors and assigns, as the assignee of the entire interest in the invention.

Assignors:

Date: December 5, 2016

  
MARK ARANA

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

\_\_\_\_\_  
BENJAMIN F. HAVEY

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

\_\_\_\_\_  
EDWARD DRAKE

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

\_\_\_\_\_  
ALEXANDER C. CHEN

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Assignors:

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

MARK ARANA

Date: 1/10/2017

BENJAMIN P. HAVEY

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

EDWARD DRAKE

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

ALEXANDER C. CHEN

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Assignors:

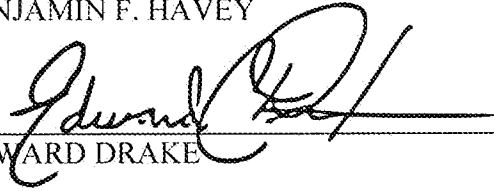
Date: \_\_\_\_\_

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MARK ARANA

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

\_\_\_\_\_  
BENJAMIN F. HAVEY

Date: 12/5/2016

  
\_\_\_\_\_  
EDWARD DRAKE

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

\_\_\_\_\_  
ALEXANDER C. CHEN

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Assignors:

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

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MARK ARANA

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

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BENJAMIN F. HAVEY

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

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EDWARD DRAKE

Date: 12/1/11

Alexander C. Chen  
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ALEXANDER C. CHEN