PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6179139

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HYUNMIN CHEONG	10/12/2017
GEORGE FITZMAURICE	11/29/2017
TOVI GROSSMAN	10/11/2017
RUBAIAT HABIB KAZI	10/13/2017
ALI BARADARAN HASHEMI	10/30/2017

RECEIVING PARTY DATA

Name:	AUTODESK, INC.	
Street Address:	111 MCINNIS PKWY	
City:	SAN RAFAEL	
State/Country:	CALIFORNIA	
Postal Code:	94903	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16520269

CORRESPONDENCE DATA

Fax Number: (408)715-1201

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: 4087151211

Email: sjohnson@artegislaw.com, algdocketing@artegislaw.com

Correspondent Name: ARTEGIS LAW GROUP LLC

Address Line 1: 710 LAKEWAY DRIVE

Address Line 2: SUITE 185

Address Line 4: SUNNYVALE, CALIFORNIA 94085

ATTORNEY DOCKET NUMBER:	AUTO1417USC1
NAME OF SUBMITTER:	JOHN C. CAREY
SIGNATURE:	/John C. Carey/
DATE SIGNED:	06/30/2020

Total Attachments: 12

PATENT REEL: 053088 FRAME: 0855

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ASSIGNMENT FOR APPLICATION FOR PATENT WITH DECLARATION STATEMENT

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Names and Addresses of Inventors:

1)	Hyunmin Cheong	2)	George Fitzmaurice
.i	Toronto, Canada		Toronto, Canada
3)	Tovi Grossman	4)	Rubaiat Habib Kazi
	Toronto, Canada		Toronto, Canada
:	i Oronio, Canada		roidino, danada
5)	Ali Baradaran Hashemi		Tolono, Oanaca

(hereinafter referred to as Assignors), have invented a certain invention entitled:

THREE-DIMENSIONAL GENERATIVE DESIGN BASED ON TWO-DIMENSIONAL SKETCHING enclosed herewith or for which application for Letters Patent in the United States was filed on

under Serial No; and
WHEREAS, AUTODESK, INC., a Corporation of the State of Delaware, having a place of
business at 111 McInnis Pkwy, San Rafael, California 94903 (hereinafter referred to as Assignee), is
desirous of acquiring the entire right, title and interest in and to said application (hereinafter referred to as
Application), and the invention disclosed therein (hereinafter referred to as Invention), and in and to all
embodiments of the Invention, heretofore conceived, made or discovered by said Assignors, and in and
to any and all patents, inventor's certificates and other forms of protection (hereinafter referred to as
Patents) thereon granted in any and all countries and groups of countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Assignors to have been received in full from said Assignee:

- 1. Said Assignors hereby sell, assign, transfer and convey to Assignee the full and exclusive right, title and interest (a) in and to said Application and said Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all Applications filed and any and all Patents granted on said Invention in any and all countries and groups of countries, including each and every Application filed and each and every Patent granted on any application which is a conventional, division, substitution, or continuation of said Application; and (d) in and to each and every reissue or extension of any of said Patents.
- 2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt production of pertinent facts and documents, giving testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or

desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, conventional, divisional, continuing or additional applications covering said Invention; (d) for filing and prosecuting applications for reissuance of any of said Patents; (e) for interference or other priority proceedings involving said Invention; and (f) for legal proceedings involving said Invention and any application therefore and any Patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Assignors in providing such cooperation shall be paid for by said Assignee.

- 3. The term and covenants of this agreement shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Assignors, their respective heirs, legal representatives and assigns.
- 4. Said Assignors hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.
- 5. In the event that the filing date and/or Application No. of said Invention are not entered above at the time Assignors execute this document, and if such information is deemed necessary, Assignors hereby authorize and request the attorney/agent(s) of **Artegis Law Group**, **LLP**, to insert above the filing date and/or Application No. of said application.

			to the control of the	aid application.	
6.	This declaration is directed to the attached application, or (if following box is checked):				
	[]	United St	ates application	or PCT international application number filed on	
As a b	elow na	amed inven	itor, I hereby de	eclare that:	
	The a	ıbove-ident	ified application	n was made or authorized to be made by me;	
in the a		eve that I a tion; and	m the original i	nventor or an original joint inventor of a claimed invention	
under	I ack section	nowledge 1001 of tit	that any willful le 18 by fine or	false statement made in this declaration is punishable imprisonment of not more than 5 years, or both.	
			F, the said As ated below.	ssignors have executed and delivered this instrument to	
1)	2017	7-10-12	(DATE)	Hyunmin Cheong	
2)	(Secretaria)		(DATE)	George Fitzmaurice	
2.			/DATE):		

Tovi Grossman

Rubaiat Habib Kazi

(DATE)

4)

5)

ASSIGNMENT FOR APPLICATION FOR PATENT WITH DECLARATION STATEMENT

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Names and Addresses of Inventors:

1)	Hynmin Cheong	2)	George Fitzmaurice
	Toronto, Canada		Toronto, Canada
3)	Tovi Grossman	4)	Rubaiat Habib Kazi
	Toronto, Canada		Toronto, Canada
5)	Ali Hashemi		5 ° 8
	Toronto, Canada		

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THREE-DIMENSIONAL GENERATIVE DESIGN BASED ON TWO-DIMENSIONAL SKETCHING enclosed herewith or for which application for Letters Patent in the United States was filed on

		under Serial	No		; and		÷
WHER	REAS, AUTODI	ESK, INC., a	Corporation	of the S	tate of Delav	vare, having	a place of
business at 11	11 McInnis Pkw	ry, San Rafae	el, California	94903 (he	ereinafter refe	rred to as A	kssignee), is
desirous of acc	quiring the entire	e right, title an	d interest in a	and to said	i application (nereinatter re antion) and i	erred to as
embodiments	of the Invention	. heretofore c	onceived, ma	arter refer	covered by sa	id Assignors.	, and in and
to any and all	patents, inven	tor's certificate	es and other	forms of	protection (h	ereinafter rei	ferred to as
Patents) there	on granted in an	ly and all cour	itries and gro	ups of cou	ıntries.		

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Assignors to have been received in full from said Assignee:

- 1. Said Assignors hereby sell, assign, transfer and convey to Assignee the full and exclusive right, title and interest (a) in and to said Application and said Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all Applications filed and any and all Patents granted on said Invention in any and all countries and groups of countries, including each and every Application filed and each and every Patent granted on any application which is a conventional, division, substitution, or continuation of said Application; and (d) in and to each and every reissue or extension of any of said Patents.
- 2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt production of pertinent facts and documents, giving testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or

desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, conventional, divisional, continuing or additional applications covering said Invention; (d) for filing and prosecuting applications for reissuance of any of said Patents; (e) for interference or other priority proceedings involving said Invention; and (f) for legal proceedings involving said Invention and any application therefore and any Patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Assignors in providing such cooperation shall be paid for by said Assignee.

- 3. The term and covenants of this agreement shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Assignors, their respective heirs, legal representatives and assigns.
- 4. Said Assignors hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.
- 5. In the event that the filing date and/or Application No. of said Invention are not entered above at the time Assignors execute this document, and if such information is deemed necessary, Assignors hereby authorize and request the attorney/agent(s) of Artegis Law Group, LLP, to insert above the filing date and/or Application No. of said application.

6.	This declaration is directed to the attached application, or (if following box is check	(ed):
	[] United States application or PCT international application number filed on	
As a be	elow named inventor, I hereby declare that:	

The above-identified application was made or authorized to be made by me;

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application; and

I acknowledge that any willful false statement made in this declaration is punishable under section 1001 of title 18 by fine or imprisonment of not more than 5 years, or both.

IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

1)	(DATE)	Hynmin Cheong
2)	<u> </u>	George Fitzmaurice
3)	(DATE)	Tovi Grossman
4)	(DATE)	Rubaiat Habib Kazi

		Attorney Docket No.: AUTU141705
5)	(DATE)	Ali Baradaran Hashemi

ASSIGNMENT FOR APPLICATION FOR PATENT

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Names and Addresses of Inventors:

1)	Hynmin Cheong	2)	George Fitzmaurice
	Toronto, Canada		Toronto, Canada
3)	Tovi Grossman	4)	Rubaiat Habib Kazi
	Toronto, Canada		Toronto, Canada
5)	Ali Baradaran Hashemi		
***************************************	Toronto, Canada		

(hereinafter referred to as Assignors), have invented a certain invention entitled:

THREE-DIMENSIONAL GENERATIVE DESIGN BASED ON TWO-DIMENSIONAL SKETCHING

enclosed herewith or for which	application for Letters	Patent in the U	Jnited S	States was filed on
		62/563,044	; and	

WHEREAS, **AUTODESK**, **INC.**, a Corporation of the State of Delaware, having a place of business at 111 McInnis Pkwy, San Rafael, California 94903 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said application (hereinafter referred to as Application), and the invention disclosed therein (hereinafter referred to as Invention), and in and to all embodiments of the Invention, heretofore conceived, made or discovered by said Assignors, and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter referred to as Patents) thereon granted in any and all countries and groups of countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Assignors to have been received in full from said Assignee:

- 1. Said Assignors hereby sell, assign, transfer and convey to Assignee the full and exclusive right, title and interest (a) in and to said Application and said Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all Applications filed and any and all Patents granted on said Invention in any and all countries and groups of countries, including each and every Application filed and each and every Patent granted on any application which is a conventional, division, substitution, or continuation of said Application; and (d) in and to each and every reissue or extension of any of said Patents.
- 2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt production of pertinent facts and documents, giving testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, conventional,

desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, conventional, divisional, continuing or additional applications covering said Invention; (d) for filing and prosecuting applications for reissuance of any of said Patents; (e) for interference or other priority proceedings involving said Invention; and (f) for legal proceedings involving said Invention and any application therefore and any Patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Assignors in providing such cooperation shall be paid for by said Assignee.

- The term and covenants of this agreement shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Assignors, their respective heirs, legal representatives and assigns.
- Said Assignors hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.
- In the event that the filing date and/or Application No. of said Invention are not entered above at the time Assignors execute this document, and if such information is deemed necessary, Assignors hereby authorize and request the attorney/agent(s) of Artegis Law Group, LLP, to insert above the filing date and/or Application No. of said application.

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Asal	below named inventor, I hereby declare that:						

The above-identified application was made or authorized to be made by me;

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1)	(DATE)	
SI.		Hynmin Cheong
2)	(DATE)	
•	9 2 1000000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 	George Fitzmaurice
3)	Oct BOOT(DATE)	
2)	Samuel (BATC)	Tovi Grossman
<i>a</i>)	(DATE)	
77	(100 () () () () () () () () ()	Rubaiat Habib Kazi

		Attorney Docket No.: AUTO1417US
		У
5)	(DATE)	Ali Hashemi

ASSIGNMENT FOR APPLICATION FOR PATENT WITH DECLARATION STATEMENT

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Names and Addresses of Inventors:

1)	Hynmin Cheong	2)	George Fitzmaurice
	Toronto, Canada		Toronto, Canada
3)	Tovi Grossman	4)	Rubaiat Habib Kazi
	Toronto, Canada		Toronto, Canada
5)	Ali Baradaran Hashemi		
	Toronto, Canada		à

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desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications, (c) for filing and prosecuting substitute, conventional, divisional continuing or additional applications covering said Invention; (d) for filing and prosecuting applications for reissuance of any of said Patents; (e) for interference or other priority proceedings involving said Invention; and (f) for legal proceedings involving said Invention and any application therefore and any Patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions, provided, however, that the expense incurred by said Assignors in providing such cooperation shall be paid for by said Assignee,

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- Said Assignors hereby warrant and represent that they have not entered and will not

nter into any	assignment, contract, or under	standing in conflict here	with.	
issignors her	time Assignors execute this	document, and if such e attorney/agent(s) of a	vo. of said Invention are not ent information is deemed necest Artegis Law Group, LLP, to in	sary
6.	This declaration is directed t	o the attached application	on, or (if following box is checked):
	[] United States applica	tion or PCT internationa		
Asat	selow named inventor, I hereby	declare that	**	
	The above-identified applica	tion was made or author	rized to be made by me;	
in the	i believe that I am the origin application; and	al inventor or an origina	i joint inventor of a claimed inve	ntior
under	I acknowledge that any will section 1001 of title 18 by fine	Iful false statement ma or imprisonment of not	de in this declaration is punish more than 5 years, or both.	able
	ITNESS WHEREOF, the said on the dates indicated below.		emuntani ainti berevileb bas bet	nt to
31)	(DATE)			
		Hynmin Cheong		
2)	,(DATE)	George Fitzmau	rice	
3)	(DATE)			

4)

Da 13, 2017 (DATE)

	Attorney Docket No.: AUTO1417U	S
(DATE)	Ali Baradaran Hashemi	

PATENT REEL: 053698 FRAME: 0268

RECORDED: 06/30/2028