# 503438735 08/17/2015

EPAS ID: PAT3485359

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
DAVID ALEXANDER FORSYTH	06/24/2015
KEVIN KARSCH	07/08/2015
MANI GOLPARVAR-FARD	08/07/2015

### **RECEIVING PARTY DATA**

Name:	THE BOARD OF TRUSTEE OF THE UNIVERSITY OF ILLINOIS
Street Address:	506 SOUTH WRIGHT STREET
City:	URBANA
State/Country:	ILLINOIS
Postal Code:	61801

### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	14690104

### **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER:	30831.27 (L0026)
NAME OF SUBMITTER:	NATHAN O. GREENE
SIGNATURE:	/Nathan O. Greene/
DATE SIGNED:	08/17/2015

## **Total Attachments: 5**

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PATENT 503438735 REEL: 036337 FRAME: 0848

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PATENT REEL: 036337 FRAME: 0849

## ASSIGNMENT

WHEREAS, David Alexander Forsyth, Kevin Karsch, and Mani Golparvar-Fard, hereinafter called the "Assignors," have made the invention described in the United States patent application entitled 4D VIZUALIZATION OF BUILDING DESIGN AND CONSTRUCTION MODELING WITH PHOTOGRAPHS, which was filed as U.S. Application No. 14/690,104, on April 17, 2015, which claims priority to United States Provisional Application No. 61/938,861, entitled, 4D VIZUALIZATION OF BUILDING DESIGN AND CONSTRUCTION MODELS WITH PHOTOGRAPHS, filed April 24, 2014;

WHEREAS, The Board of Trustees of the University of Illinois, a body corporate and politic having a place of business at 352 Henry Administration Building, 506 South Wright Street, Urbana, Illinois 61801, hereinafter called the "Assignee," desires to acquire the entire right, title and interest in and to the invention and the patent application identified above, and all patents which may be obtained for said invention, as set forth below;

NOW, THEREFORE, in consideration of valuable and legally sufficient consideration, the receipt of which by the Assignors from the Assignee is hereby acknowledged, the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer to the Assignee, the entire right, title and interest for the United States in and to the invention and the patent application identified above, and any patents that may issue for said invention in the United States; together with the entire right, title and interest in and to said invention and all patent applications and patents therefor in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; together with the entire right, title and interest in and to all continuations, divisions, renewals and extensions of any of the patent applications and patents defined above; together with the right to recover all damages, including, but not limited to, a reasonable royalty, by reason of past, present, or future infringement or any other violation of patent or patent application rights; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for all such patents.

Assignment - Page 1 of 4

PATENT REEL: 036337 FRAME: 0850 The Assignors hereby covenant and agree, for both the Assignors and the Assignors' legal representatives, that the Assignors will assist the Assignee in the prosecution of the patent application identified above; in the making and prosecution of any other patent applications that the Assignee may elect to make covering the invention identified above; in vesting in the Assignee like exclusive title in and to all such other patent applications and patents; and in the prosecution of any interference which may arise involving said invention, or any such patent application or patent; and that the Assignors will execute and deliver to the Assignee any and all additional papers which may be requested by the Assignee to carry out the terms of this Assignment.

The Commissioner of Patents and Trademarks is hereby authorized and requested to issue patents to the Assignee in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, the Assignors have executed this agreement.

Dated: 24 JUNE 2015	/ × × / / /
	David Alexander Forsyth
STATE OF Illinois )	
STATE OF Illinois ) ss. COUNTY OF Champaign )	
hereby certify that <u>David Alexander Forsyti</u> whose name is subscribed to the foregoing in and acknowledged that he signed, sealed an voluntary act for the uses and purposes there	ublic in and for the County and State aforesaid, do h, personally known to me to be the same person instrument, appeared before me this day in person and delivered the said instrument as his free and ein set forth.  eunto set my hand and Notarial Seal, this
	Doma A. Wilm
	Notary Public
My Commission Expires:	AAAAAAAAAAA
<u>6-26-2019</u>	ONNA A. WILM
	Public, State of Illinois } #8880m Expires 6-26-2019 }

Assignment - Page 2 of 4

# Attorney Docket No. 30831.27 (L0025) UIUC No. TF14010-US

Dated: 7/8/2015	MALL
	Kevin Karsch
STATEOF California COUNTY OF San Mater	) SS.
whose name is subscribed to the for	a Notary Public in and for the County and State  vin Karsch, personally known to me to be the same person regoing instrument, appeared before me this day in person sealed and delivered the said instrument as his free and bees therein set forth.
IN WITNESS WHEREOF, I i day of, 2015	have hereunto set my hand and Notarial Seal, this
	Avidity Lubic
My Commission Expires:  03   22   20   9	SHRIDHAR GORE COMM, # 2101099  OTHER PUBLIC CALFORNIA O  SAM MATED COUNTY  MY COMM. Ray, RUSE 22 2019 7

# ALL-PURPOSE ACKNOWLEDGMENT

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Description of this form to an unauthorized document.  CAPACITY CLAIMED BY SIGNER (PRINCIPAL)  CORPORATE OFFICER  PARTNER(S)  ATTORNEY IN FACT  GUARDIANCONSTRIVATIOR  GUARDIANCONSTRIVATION  GUARDIANCONSTRIVATION  GUARDIANCONSTRIVATION  GUARDIANCONSTRIVATION  GUARDIANCONSTRIVATION  GUARDIANCONSTRIVATION  GUARDIANCONSTRIVATION  GUARDIANCONSTRIVATION  GUARDIANCONSTRIVATION  GUARDIANCONSTRIV		
sis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/shadhay executed the same in his/box/mbeir authorized capacity(ies), and that by his/haddhair signature(s) on the instrument the person(s) acted executed the instrument.    Symbolia core   Symbolia		SS.
SIRDHAR GORE CONNECTED STATE CHARGE IN THE STATE CHARGE IN THE STATE AND THE STATE CHARGE IN THE STATE CHA	n 07/08/2015, before me,	Shridher Gore, Notary Public, &
and acknowledged to me that he/sha@ley executed the same in his/he/their authorized capacity(fes), and that by his/he/their authorized capacity(fes), and that by his/he/their authorized capacity(fes), and that by his/he/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s), acted executed the instrument.    Cover of 26(16)	ersonally appeared Kevin Karsch	, who proved to me on the
PLACE NOTARY SEAL IN ABOVE SPACE  OPTIONAL INFORMATION  The information below is optional. However, it may prove valuable and could prevent fraudulent attachment of this form to an unauthorized document.  CAPACITY CLAIMED BY SIGNER (PRINCIPAL)  INDIVIDUAL  CORPORATE OFFICER  PARTNER(S)  ATTORNEY-IN-FACT  GUARDIAN/CONSERVATOR  SUBSCRIBING WITNESS  OTHER:  DATE OF DOCUMENT  NUMBER OF PAGES  C7 /08 20 15  DATE OF DOCUMENT  APP. # 14/690,104 & feed on April 77,2018  OTHER  GONER (PRINCIPAL) IS REPRESENTING:  AME OF PERSON(S) OR ENTITY(IES)  RIGHT  THUMBPRINT  OF  SIGNER	SHRIDHAR GORE COMM. # 2101099  NOTARY PUBLIC CALIFORNIA DI SAN MATEO COUNTY	and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.  I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.
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IGNER (PRINCIPAL) IS REPRESENTING:  AME OF PERSON(S) OR ENTITY(IES)  RIGHT THUMBPRINT OF SIGNER SIGNER	CORPORATE OFFICER  PARTNER(S)  ATTORNEY-IN-FACT  GUARDIAN/CONSERVATOR  SUBSCRIBING WITNESS	Declaration (370FR 163) for Utility or Doc  Application using an Application Extension of Number of Pages  O7/08/2015—  DATE OF DOCUMENT
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	2015 NOTARY RONDS FURDING CARD	SIGNER  SIGNER

REEL: 036337 FRAME: 0853

# Attorney Docket No. 30831.27 (L0026) UIUC No. TF14010-US

Dated: 8/7/2015	
	Mani Golíparvár-Fard
person whose name is subscribed to the person and acknowledged that he signer and voluntary act for the uses and purp	a Notary Public in and for the County and State Golparvar-Fard, personally known to me to be the same be foregoing instrument, appeared before me this day in ed, sealed and delivered the said instrument as his free
My Commission Expires:	OFFICIAL SEAL
July 29, 2018	TRACY A HUNTER Notary Public - State of Illinois My Commission Expires Jul 29, 2018

RECORDED: 08/17/2015