506368399 11/23/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6415155

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MARKUS BÜRG	11/10/2020
LIANG JIN LIM	11/23/2020

RECEIVING PARTY DATA

Name:	BENTLEY SYSTEMS, INCORPORATED	
Street Address:	685 STOCKTON DRIVE	
City:	EXTON	
State/Country:	PENNSYLVANIA	
Postal Code:	19341	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17101556

CORRESPONDENCE DATA

Fax Number: (617)951-3927

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: 617-951-2500 Email: docket@c-m.com

Correspondent Name: CESARI AND MCKENNA, LLP

Address Line 1: ONE LIBERTY SQUARE

Address Line 2: **SUITE 310**

Address Line 4: BOSTON, MASSACHUSETTS 02109

ATTORNEY DOCKET NUMBER:	107051-0379	
NAME OF SUBMITTER:	OMAR M. WADHWA	
SIGNATURE:	/Omar M. Wadhwa/	
DATE SIGNED:	11/23/2020	

Total Attachments: 4

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PATENT REEL: 054446 FRAME: 0276

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ASSIGNMENT

Whereas We, Markus Bürg, whose residence address is Den Haag, Netherlands and Liang Jin Lim, whose residence address is Kuantan, Malaysia have made certain inventions or discoveries (or both) set forth in an application for Letters Patent of the United States of America entitled SYSTEMS, METHODS, AND MEDIA FOR MODIFYING A MESH FOR A MATERIAL POINT METHOD UTILIZED FOR GEOTECHNICAL ENGINEERING, identified by Cesari and McKenna File No. 107051–0379; and

Whereas Bentley Systems, Incorporated, whose address is 685 Stockton Drive, Exton, PA, 19341, US, and which, together with its successors and assigns, is hereinafter called "Assignee," is desirous of acquiring the title, rights, benefits, and privileges hereinafter recited:

Now, Therefore, for valuable consideration furnished by Assignee to us, receipt and sufficiency of which we hereby acknowledge, we, hereby, without reservation:

- 1. Assign, transfer and convey to Assignee our entire right, title, and interest in and to said inventions and discoveries, said application for Letters Patent of the United States of America, any and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all provisional, divisional, renewal, substitute, continuation, continuation-in-part, and Convention applications based in whole or in part upon said inventions or discoveries, or upon said applications, and any and all Letters Patent, reissues, reexaminations, and extensions of Letters Patent granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications, and said Letters Patent;
- 2. Authorize Assignee to file patent applications in any or all countries on any or all of said inventions and discoveries in our names or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or otherwise;
- 3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignee, as assignee of the entire right, title, and interest therein or otherwise as Assignee may direct;
- 4. Warrant that we have not knowingly conveyed to others any right in said inventions, discoveries, applications, or patents or any license to use the same or to make, use, or sell anything embodying or utilizing any of said inventions or discoveries; and that we have good right to assign the same to Assignee without encumbrance;
- 5. Bind our heirs, legal representatives and assigns, as well as ourselves, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to us or them, all acts reasonably serving to assure that the said inventions and discoveries, the said patent applications, and the said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed

PATENT REEL: 054446 FRAME: 0277 by us, our heirs, legal representatives, and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to us relating to said inventions and discoveries or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples, and other physical exhibits in our control or in the control of our heirs, legal representatives or assigns which may be useful for establishing the facts of our conceptions, disclosures, and reduction to practice of said inventions and discoveries.

In testimony of which we have executed this Assignment on the dates indicated text to our names.

11/10/2020	11 3 ma
Date	Markus Bürg, İnventor
Dute	Liang Jin Lim, Inventor
November 23, 2020	Ou R Span
Date	Bentley Systems, Incorporated, Assignee
	David Shaman
	Name
	Chief Legal Officer

ASSIGNMENT

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- 2. Authorize Assignee to file patent applications in any or all countries on any or all of said inventions and discoveries in our names or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or otherwise;
- 3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignce, as assignee of the entire right, title, and interest therein or otherwise as Assignce may direct:
- 4. Warrant that we have not knowingly conveyed to others any right in said inventions, discoveries, applications, or patents or any license to use the same or to make, use, or sell anything embodying or utilizing any of said inventions or discoveries; and that we have good right to assign the same to Assignce without encumbrance;
- 5. Bind our heirs, legal representatives and assigns, as well as ourselves, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to us or them, all acts reasonably serving to assure that the said inventions and discoveries, the said patent applications, and the said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed

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In testimony of which we have executed this Assignment on the dates indicated next to our names.

Date	Markus Bing, Inventor
11/23/2600	
Date	Lisng/fin Lim, Inventor
November 23, 2020	Ou DR Show
Date	Bentley Systems, Incorporated, Assignee
	David Shaman
	Name
	Chief Legal Officer
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