

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT7021996

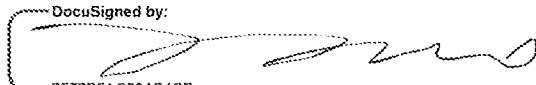
SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
ZHUO XU	10/29/2021
WENHAO YU	10/30/2021
ALEXANDER HERZOG	10/29/2021
WENLONG LU	11/01/2021
CHUYUAN FU	10/29/2021
YUNFEI BAI	10/29/2021
C. KAREN LIU	10/30/2021
DANIEL HO	10/29/2021
RECEIVING PARTY DATA	
Name:	X DEVELOPMENT LLC
Street Address:	1600 AMPHITHEATRE PARKWAY
City:	MOUNTAIN VIEW
State/Country:	CALIFORNIA
Postal Code:	94043
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17515490
CORRESPONDENCE DATA	
Fax Number:	(502)561-0442
<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>	
Phone:	502-584-1135
Email:	jrooks@middletonlaw.com
Correspondent Name:	MIDDLETON REUTLINGER
Address Line 1:	401 S. 4TH STREET
Address Line 2:	SUITE 2600
Address Line 4:	LOUISVILLE, KENTUCKY 40202
ATTORNEY DOCKET NUMBER:	ZU236-21028
NAME OF SUBMITTER:	SCOTT W. HIGDON
SIGNATURE:	/Scott W. Higdon/

PATENT


DATE SIGNED:	11/12/2021
Total Attachments: 2 source=ZU236-21028-Assignment#page1.tif source=ZU236-21028-Assignment#page2.tif	

ASSIGNMENT

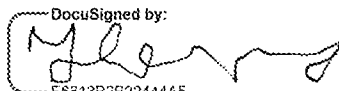
For valuable consideration, we, Zhuo Xu of Menlo Park, California; Wenhao Yu of Sunnyvale, California; Alexander Herzog of San Jose, California; Wenlong Lu of Sunnyvale, California; Chuyuan Fu of Sunnyvale, California; Yunfei Bai of Fremont, California; C. Karen Liu having an address in Palo Alto, California; and Daniel Ho of Fremont, California, hereby assign to: X Development LLC, a limited liability company of Delaware having a place of business at: 1600 Amphitheatre Parkway, Mountain View, California 94043; and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled **Utilizing Past Contact Physics In Robotic Manipulation (e.g., Pushing) Of An Object**, filed October 31, 2021, and assigned U.S. Serial Number 17/515,490, we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our names or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

DocuSigned by:

 7577B58C25AF4CE
 Zhuo Xu

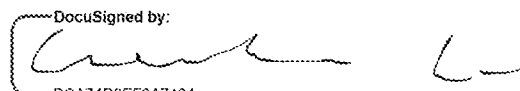
Date: 10/29/2021

DocuSigned by:

 C9CE8EA12CD5481
 Wenhao Yu

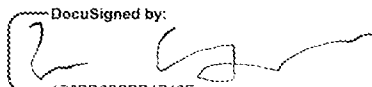
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DocuSigned by:

E6813B2E2244A5
Alexander Herzog

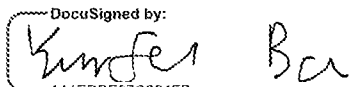
Date: 10/29/2021

DocuSigned by:

BCA74D6EE9A7A84
Wenlong Lu

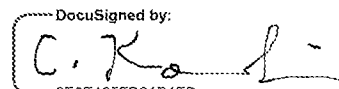
Date: 11/1/2021

DocuSigned by:

199BD82CE01B43E
Chuyuan Fu

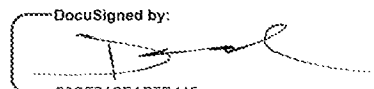
Date: 10/29/2021

DocuSigned by:

144ED8E07C864EB
Yunfei Bai

Date: 10/29/2021

DocuSigned by:

9E6E105EQ91B4ED
C. Karen Liu

Date: 10/30/2021

DocuSigned by:

C8CE74CEAB7D415
Daniel Ho

Date: 10/29/2021