

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5743413

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
YUXIANG WANG	09/23/2019
ROHIT TANUGULA	09/25/2019
REZA SHIRAZI AGHJARI	09/23/2019
JUN SATO	09/25/2019
LUYAO CAI	09/23/2019
VIKTORIA MEDVINSKAYA	09/24/2019
ARNO KUKK	09/25/2019
ANDREY CHERKAS	09/24/2019
ANNA AKOPOVA	09/24/2019
KANGNING SU	09/23/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ALIGN TECHNOLOGY, INC.
<b>Street Address:</b>	2820 ORCHARD PARKWAY
<b>City:</b>	SAN JOSE
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	95134
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16584786
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(973)597-2400
<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>	
<b>Phone:</b>	9735972500
<b>Email:</b>	kjohnson@lowenstein.com
<b>Correspondent Name:</b>	PATENT DOCKET ADMINISTRATOR
<b>Address Line 1:</b>	LOWENSTEIN SANDLER LLP
<b>Address Line 2:</b>	ONE LOWENSTEIN DRIVE
<b>Address Line 4:</b>	ROSELAND, NEW JERSEY 07068
<b>ATTORNEY DOCKET NUMBER:</b>	28510.163 L0096US01

PATENT

<b>NAME OF SUBMITTER:</b>	BENJAMIN A. KIMES (REG. NO. 50870)
<b>SIGNATURE:</b>	/Benjamin A. Kimes/
<b>DATE SIGNED:</b>	09/27/2019
<b>Total Attachments: 9</b> source=1534.US.P1 (28510.163 (L0096US01)) Assignment#page1.tif source=1534.US.P1 (28510.163 (L0096US01)) Assignment#page2.tif source=1534.US.P1 (28510.163 (L0096US01)) Assignment#page3.tif source=1534.US.P1 (28510.163 (L0096US01)) Assignment#page4.tif source=1534.US.P1 (28510.163 (L0096US01)) Assignment#page5.tif source=1534.US.P1 (28510.163 (L0096US01)) Assignment#page6.tif source=1534.US.P1 (28510.163 (L0096US01)) Assignment#page7.tif source=1534.US.P1 (28510.163 (L0096US01)) Assignment#page8.tif source=1534.US.P1 (28510.163 (L0096US01)) Assignment#page9.tif	

**ASSIGNMENT OF PATENT APPLICATION**

Attorney Docket No.: 28510.163 (L0096US01)

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/we, the undersigned, Yuxiang Wang, Rohit Tanugula, Reza Shirazi Aghjari, Andrew Jang, Chunhua Li, Jun Sato, Luyao Cai, Viktoria Medvinskaya, Arno Kukk, Andrey Cherkas, Anna Akopova and Kangning Su

hereby sell, assign, and transfer to Align Technology, Inc.

a corporation of Delaware

(Type of Assignee: e.g., corporation, company, partnership, university, etc.)

having a principal place of business at 2820 Orchard Parkway, San Jose, California 95134

("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions or improvements that are disclosed in the application (provisional or non-provisional) for the United States patent which may have a declaration executed by the undersigned prior hereto or concurrently herewith and is entitled

ALIGNER DAMAGE PREDICTION AND MITIGATION

said patent application also identified as follows (when known):

[I/we hereby authorize an attorney or agent for said Assignee to insert below the application number and filing date of said patent application when known.]

United States Patent Application Number 16/584,786 filed September 26, 2019

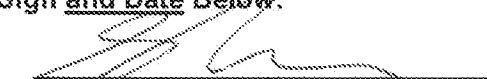
and in and to said application (provisional or non-provisional) and all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions or improvements; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said inventions or improvements; and in and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said inventions or improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications on any and all said inventions or improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said inventions or improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining proper patent protection for said inventions or improvements and for vesting title to said inventions or improvements, and all applications for patents and all patents on said inventions or improvements, in said Assignee, its successors, assigns, and legal representatives; and

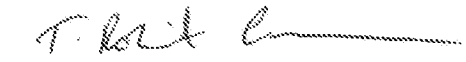
covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Each Inventor: Please Sign and Date Below:

9/23, 2019  
Date

  
Yuxiang Wang

9/25, 2019  
Date

  
Rohit Tanugula

\_\_\_\_\_, 2019  
Date

\_\_\_\_\_  
Reza Shirazi Aghjari

\_\_\_\_\_, 2019  
Date

\_\_\_\_\_  
Andrew Jang


\_\_\_\_\_, 2019  
Date

\_\_\_\_\_  
Chunhua Li

\_\_\_\_\_, 2019  
Date

\_\_\_\_\_  
Jun Sato

9/23, 2019  
Date

  
Luyao Cai

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

**Each Inventor: Please Sign and Date Below:**

\_\_\_\_\_, 2019  
Date Yuxiang Wang

\_\_\_\_\_, 2019  
Date Rohit Tanugula

*Sep 23*, 2019  
Date *Reza Shirazi*  
Reza Shirazi Aghjari

\_\_\_\_\_, 2019  
Date Andrew Jang

\_\_\_\_\_, 2019  
Date Chunhua Li

\_\_\_\_\_, 2019  
Date Jun Sato

\_\_\_\_\_, 2019  
Date Luyao Cai

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**Each Inventor: Please Sign and Date Below:**

\_\_\_\_\_, 2019  
Date Yuxiang Wang

\_\_\_\_\_, 2019  
Date Rohit Tanugula

\_\_\_\_\_, 2019  
Date Reza Shirazi Aghjari

\_\_\_\_\_, 2019  
Date Andrew Jang

\_\_\_\_\_, 2019  
Date Chunhua Li

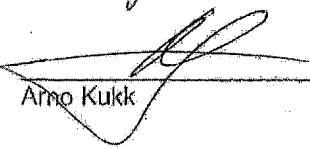
9/25, 2019  
Date   
Jun Sato

\_\_\_\_\_, 2019  
Date Luyao Cai

24 September, 2019  
Date

  
\_\_\_\_\_  
Viktoria Medvinskaya

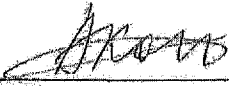
25 September, 2019  
Date

  
\_\_\_\_\_  
Arno Kukk

\_\_\_\_\_, 2019  
Date

\_\_\_\_\_  
Andrey Cherkas

24 September, 2019  
Date

  
\_\_\_\_\_  
Anna Akopova

\_\_\_\_\_, 2019  
Date

\_\_\_\_\_  
Kangning Su

Accepted by Align Technology, Inc. (Assignee)


\_\_\_\_\_, 2019  
Date

\_\_\_\_\_  
By: \_\_\_\_\_  
Title: \_\_\_\_\_

Assignment Document Return Address:  
Patent Docket Administrator  
Lowenstein Sandler PC  
One Lowenstein Drive  
Roseland, New Jersey 07068

\_\_\_\_\_, 2019  
Date Viktoria Medvinskaya

\_\_\_\_\_, 2019  
Date Arno Kukk

24 Sep, 2019  
Date   
Andrey Cherkas

\_\_\_\_\_, 2019  
Date Anna Akopova

\_\_\_\_\_, 2019  
Date Kangning Su

**Accepted by Align Technology, Inc. (Assignee)**

\_\_\_\_\_, 2019  
Date  
By: \_\_\_\_\_  
Title: \_\_\_\_\_

Assignment Document Return Address:  
Patent Docket Administrator  
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One Lowenstein Drive  
Roseland, New Jersey 07068



\_\_\_\_\_, 2019  
Date

\_\_\_\_\_  
Viktoria Medvinskaya

\_\_\_\_\_, 2019  
Date

\_\_\_\_\_  
Arno Kukk

\_\_\_\_\_, 2019  
Date

\_\_\_\_\_  
Andrey Cherkas

\_\_\_\_\_, 2019  
Date

\_\_\_\_\_  
Anna Akopova

9/23, 2019  
Date

Kangning Su  
Kangning Su

Accepted by Align Technology, Inc. (Assignee)

Sept. 26, 2019  
Date

By: \_\_\_\_\_

Title: \_\_\_\_\_

Arthur S. Hsieh, J.D., Ph.D.  
Align Technology, Inc.  
Vice President, Intellectual Property & Licensing

Assignment Document Return Address:  
Patent Docket Administrator  
Lowenstein Sandler PC  
One Lowenstein Drive  
Roseland, New Jersey 07068

## ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California  
County of Santa Clara)

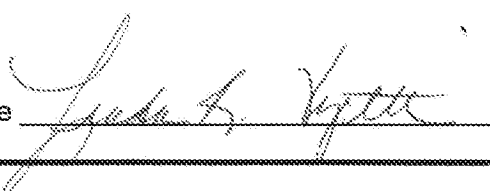
On September 23, 2019 before me, Linda R. Vajretti, Notary Public  
(insert name and title of the officer)

personally appeared Yuxiang WANG, Luyao CAI and Kangning SU  
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) ~~is~~/are subscribed to the within instrument 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.

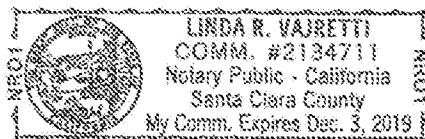
I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature



(Seal)



DOCUMENT:  
Assignment 1534.US.P1

PATENT  
REEL: 050522 FRAME: 0720

## ACKNOWLEDGMENT

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State of California  
County of Santa Clara)

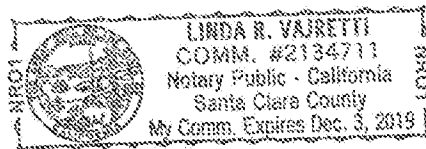
On September 25, 2019 before me, Linda R. Vajretti, Notary Public  
(insert name and title of the officer)

personally appeared Rohit TANUGULA  
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument 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.

WITNESS my hand and official seal.

Signature  (Seal)



DOCUMENT:  
Assignment 1534.US.P1