

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT7296478

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
XIAOLING HAN	08/10/2020
CHARLES A. PRICE	08/10/2020
LINDONG SUN	08/10/2020
LIU LIU	08/10/2020
YI WANG	08/13/2020
RUILIANG ZHANG	08/10/2020
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	TUSIMPLE, INC.
<b>Street Address:</b>	9191 TOWNE CENTRE DRIVE
<b>City:</b>	SAN DIEGO
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	92122
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	17660519
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>Email:</b>	patentprocurement@perkinscoie.com, aserrano@perkinscoie.com
<b>Correspondent Name:</b>	PERKINS COIE LLP
<b>Address Line 1:</b>	P.O. BOX 1247
<b>Address Line 2:</b>	ATTENTION: VINAY SATHE
<b>Address Line 4:</b>	SEATTLE, WASHINGTON 98111-1247
<b>ATTORNEY DOCKET NUMBER:</b>	128000-8002.US02
<b>NAME OF SUBMITTER:</b>	ADRIANA SERRANO
<b>SIGNATURE:</b>	/Adriana Serrano/
<b>DATE SIGNED:</b>	04/25/2022
This document serves as an Oath/Declaration (37 CFR 1.63).	

**Total Attachments: 18**

source=2022-04-25 Combined Declarations and Assignments from Parent 128000-8002.US02#page1.tif  
source=2022-04-25 Combined Declarations and Assignments from Parent 128000-8002.US02#page2.tif  
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source=2022-04-25 Combined Declarations and Assignments from Parent 128000-8002.US02#page18.tif

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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In re Patent Application of:

Applicant: TUSIMPLE, INC.

Inventors: Xiaoling HAN et al.

Application No.: 16/243,821

Confirmation No.: 5468

Filing Date: January 9, 2019

Title: REAL-TIME REMOTE CONTROL OF  
VEHICLES WITH HIGH REDUNDANCY

---

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**DECLARATION AND ASSIGNMENT BY INVENTOR**  
**UNDER RULE 37 C.F.R. § 1.63**

I, Xiaoling HAN, of San Diego, California, hereby declare that:

I believe I am the sole original inventor or an original joint inventor of a claimed invention in a patent application entitled:

**REAL-TIME REMOTE CONTROL OF VEHICLES WITH HIGH REDUNDANCY**

which was filed on January 9, 2019, as Application No. 16/243,821, and which claims the benefit of priority of U.S. Provisional Application No. 62/615,377, filed January 9, 2018.

I believe the following persons are original joint inventors of the above-identified patent application:

Charles A. PRICE, of San Diego, CA;

Lindong SUN, of San Diego, CA;

Liu LIU, of San Diego, CA;

Yi WANG, of San Diego, CA; and

Ruiliang ZHANG, of San Diego, CA.

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

I have reviewed and understand the contents of the above-identified patent application including the claims.

I am aware of the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR §1.56.

I hereby acknowledge that any willful false statement made in the above declaration is punishable under 18 USC §1001 by fine or imprisonment of not more than five (5) years, or both.

### ASSIGNMENT

I hereby assign to TUSIMPLE, INC., a corporation of CALIFORNIA, having a place of business at 9191 Towne Centre Drive, Suite 600, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in any and all inventions and improvements which are described in an application for United States Patent, entitled *REAL-TIME REMOTE CONTROL OF VEHICLES WITH HIGH REDUNDANCY*, filed on January 9, 2019, and assigned U.S. Application Number 16/243,821, and which claims the benefit of priority of U.S. Provisional Application No. 62/615,377, filed January 9, 2018.

This assignment includes the entire right, title and interest in said application(s), all legal equivalents thereof in any country, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions and improvements, including, but not limited to, all divisions, continuations, reissues, reexamination certificates, any and all certificates issued in any post-grant proceeding, and extensions of said application(s) and patents of the United States, foreign patents, utility models, and design registrations, and the right to claim priority based on the filing date of said application(s) 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 the right to seek relief and recover all damages, including, but not limited to, a reasonable royalty, by reason of infringement or any other violation of patent or patent application rights. I authorize the Assignee to apply in all countries in my name or in the name of the Assignee for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements.

In addition, I hereby confirm the sale, assignment, and transfer to the Assignee of the entire right, title and interest throughout the world in said inventions and improvements by operation of an employment agreement between me and the Assignee existing at the time said inventions and improvements were made. Should I have any remaining interest, I hereby sell, assign, and transfer to the Assignee any right, title and interest I may have in said inventions and improvements anywhere in the world.

The foregoing assignments, sale and transfer have been made for good and valuable consideration, the receipt of which is hereby acknowledged.

I hereby represent and covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into that would conflict with the assignment of said inventions and improvements to the Assignee.

I further covenant for myself and my respective heirs, legal representatives and assigns, to assist the Assignee in handling various procedures, tasks and documentation in connection with this assignment, including, but not limited to, providing to the Assignee promptly upon the request of the Assignee all pertinent facts and documents relating to said invention and improvements, and said patents, said legal equivalents or other legal instrument as may be known and accessible to me and testifying as to the same in any interference, litigation, or proceeding relating thereto, and promptly executing and delivering to the Assignee or its legal representative any and all papers, documents, instruments or affidavits in connection with obtaining, maintaining, issuing or enforcing said application(s), said inventions and improvements, and said patents, said equivalents and other legal instrument which may be necessary or desirable to carry out the purposes thereof.

I am competent to execute the above declaration and assignment. I hereby have duly executed the declaration and assignment below with my name.

Full name of inventor: XIAOLING HAN

Inventor's signature: Xiaoling Han  
(Xiaoling Han) (Aug 10, 2020 10:11 PCT)

Date: Aug 10, 2020

The Assignee hereby acknowledges the assignment. The undersigned is authorized to act on behalf of the Assignee.

Assignee: TUSIMPLE, INC.

Authorized officer's legal name: Paul LIU

Authorized officer's title: Global Head of Intellectual Property

Authorized officer's signature: Paul Liu  
(Paul Liu) (Aug 14, 2020 10:09 PCT)

Date: Aug 14, 2020

Perkins Coie LLP  
P.O. Box 1247  
Seattle, Washington 98111-1247  
Telephone: (858) 720-5700  
Facsimile: (206) 359-7198

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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In re Patent Application of:

Applicant: TUSIMPLE, INC.

Inventors: Xiaoling HAN et al.

Application No.: 16/243,821

Confirmation No.: 5468

Filing Date: January 9, 2019

Title: REAL-TIME REMOTE CONTROL OF  
VEHICLES WITH HIGH REDUNDANCY

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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**DECLARATION AND ASSIGNMENT BY INVENTOR**  
**UNDER RULE 37 C.F.R. § 1.63**

I, Charles A. PRICE, of San Diego, CA, hereby declare that:

I believe I am the sole original inventor or an original joint inventor of a claimed invention in a patent application entitled:

**REAL-TIME REMOTE CONTROL OF VEHICLES WITH HIGH REDUNDANCY**

which was filed on January 9, 2019, as Application No. 16/243,821, and which claims the benefit of priority of U.S. Provisional Application No. 62/615,377, filed January 9, 2018.

I believe the following persons are original joint inventors of the above-identified patent application:

Xiaoling HAN, of San Diego, California;

Lindong SUN, of San Diego, CA;

Liu LIU, of San Diego, CA;

Yi WANG, of San Diego, CA; and

Ruiliang ZHANG, of San Diego, CA.

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

I have reviewed and understand the contents of the above-identified patent application including the claims.

I am aware of the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR §1.56.

I hereby acknowledge that any willful false statement made in the above declaration is punishable under 18 USC §1001 by fine or imprisonment of not more than five (5) years, or both.

### ASSIGNMENT

I hereby assign to TUSIMPLE, INC., a corporation of CALIFORNIA, having a place of business at 9191 Towne Centre Drive, Suite 600, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in any and all inventions and improvements which are described in an application for United States Patent, entitled *REAL-TIME REMOTE CONTROL OF VEHICLES WITH HIGH REDUNDANCY*, filed on January 9, 2019, and assigned U.S. Application Number 16/243,821, and which claims the benefit of priority of U.S. Provisional Application No. 62/615,377, filed January 9, 2018

This assignment includes the entire right, title and interest in said application(s), all legal equivalents thereof in any country, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions and improvements, including, but not limited to, all divisions, continuations, reissues, reexamination certificates, any and all certificates issued in any post-grant proceeding, and extensions of said application(s) and patents of the United States, foreign patents, utility models, and design registrations, and the right to claim priority based on the filing date of said application(s) 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 the right to seek relief and recover all damages, including, but not limited to, a reasonable royalty, by reason of infringement or any other violation of patent or patent application rights. I authorize the Assignee to apply in all countries in my name or in the name of the Assignee for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements.

In addition, I hereby confirm the sale, assignment, and transfer to the Assignee of the entire right, title and interest throughout the world in said inventions and improvements by operation of an employment agreement between me and the Assignee existing at the time said inventions and improvements were made. Should I have any remaining interest, I hereby sell, assign, and transfer to the Assignee any right, title and interest I may have in said inventions and improvements anywhere in the world.


The foregoing assignments, sale and transfer have been made for good and valuable consideration, the receipt of which is hereby acknowledged.

I hereby represent and covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into that would conflict with the assignment of said inventions and improvements to the Assignee.

I further covenant for myself and my respective heirs, legal representatives and assigns, to assist the Assignee in handling various procedures, tasks and documentation in connection with this assignment, including, but not limited to, providing to the Assignee promptly upon the request of the Assignee all pertinent facts and documents relating to said invention and improvements, and said patents, said legal equivalents or other legal instrument as may be known and accessible to me and testifying as to the same in any interference, litigation, or proceeding relating thereto, and promptly executing and delivering to the Assignee or its legal representative any and all papers, documents, instruments or affidavits in connection with obtaining, maintaining, issuing or enforcing said application(s), said inventions and improvements, and said patents, said equivalents and other legal instrument which may be necessary or desirable to carry out the purposes thereof.

I am competent to execute the above declaration and assignment. I hereby have duly executed the declaration and assignment below with my name.

Full name of inventor: CHARLES A. PRICE

Inventor's signature:   
(Charles Price (Inventor), 2020 18079 PGT)

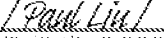
Date: Aug 10, 2020

The Assignee hereby acknowledges the assignment. The undersigned is authorized to act on behalf of the Assignee.

Assignee: TUSIMPLE, INC.

Authorized officer's legal name: Paul LIU

Authorized officer's title: Global Head of Intellectual Property

Authorized officer's signature:   
(Paul Liu (Authorized Officer), 2020 18081 PGT)

Date: Aug 10, 2020

Perkins Coie LLP  
P.O. Box 1247  
Seattle, Washington 98111-1247  
Telephone: (858) 720-5700  
Facsimile: (206) 359-7198



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

---

In re Patent Application of:

Applicant: TUSIMPLE, INC.

Inventors: Xiaoling HAN et al.

Application No.: 16/243,821

Confirmation No.: 5468

Filing Date: January 9, 2019

Title: REAL-TIME REMOTE CONTROL OF  
VEHICLES WITH HIGH REDUNDANCY

---

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**DECLARATION AND ASSIGNMENT BY INVENTOR**  
**UNDER RULE 37 C.F.R. § 1.63**

I, Lindong SUN, of San Diego, CA, hereby declare that:

I believe I am the sole original inventor or an original joint inventor of a claimed invention in a patent application entitled:

**REAL-TIME REMOTE CONTROL OF VEHICLES WITH HIGH REDUNDANCY**

which was filed on January 9, 2019, as Application No. 16/243,821, and which claims the benefit of priority of U.S. Provisional Application No. 62/615,377, filed January 9, 2018.

I believe the following persons are original joint inventors of the above-identified patent application:

Xiaoling HAN, of San Diego, California;

Charles A. PRICE, of San Diego, CA;

Liu LIU, of San Diego, CA;

Yi WANG, of San Diego, CA; and

Ruiliang ZHANG, of San Diego, CA.

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

I have reviewed and understand the contents of the above-identified patent application including the claims.

I am aware of the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR §1.56.

I hereby acknowledge that any willful false statement made in the above declaration is punishable under 18 USC §1001 by fine or imprisonment of not more than five (5) years, or both.

### ASSIGNMENT

I hereby assign to TUSIMPLE, INC., a corporation of CALIFORNIA, having a place of business at 9191 Towne Centre Drive, Suite 600, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in any and all inventions and improvements which are described in an application for United States Patent, entitled *REAL-TIME REMOTE CONTROL OF VEHICLES WITH HIGH REDUNDANCY*, filed on January 9, 2019, and assigned U.S. Application Number 16/243,821, and which claims the benefit of priority of U.S. Provisional Application No. 62/615,377, filed January 9, 2018.

This assignment includes the entire right, title and interest in said application(s), all legal equivalents thereof in any country, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions and improvements, including, but not limited to, all divisions, continuations, reissues, reexamination certificates, any and all certificates issued in any post-grant proceeding, and extensions of said application(s) and patents of the United States, foreign patents, utility models, and design registrations, and the right to claim priority based on the filing date of said application(s) 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 the right to seek relief and recover all damages, including, but not limited to, a reasonable royalty, by reason of infringement or any other violation of patent or patent application rights. I authorize the Assignee to apply in all countries in my name or in the name of the Assignee for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements.

In addition, I hereby confirm the sale, assignment, and transfer to the Assignee of the entire right, title and interest throughout the world in said inventions and improvements by operation of an employment agreement between me and the Assignee existing at the time said inventions and improvements were made. Should I have any remaining interest, I hereby sell, assign, and transfer to the Assignee any right, title and interest I may have in said inventions and improvements anywhere in the world.

The foregoing assignments, sale and transfer have been made for good and valuable consideration, the receipt of which is hereby acknowledged.

I hereby represent and covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into that would conflict with the assignment of said inventions and improvements to the Assignee.

I further covenant for myself and my respective heirs, legal representatives and assigns, to assist the Assignee in handling various procedures, tasks and documentation in connection with this assignment, including, but not limited to, providing to the Assignee promptly upon the request of the Assignee all pertinent facts and documents relating to said invention and improvements, and said patents, said legal equivalents or other legal instrument as may be known and accessible to me and testifying as to the same in any interference, litigation, or proceeding relating thereto, and promptly executing and delivering to the Assignee or its legal representative any and all papers, documents, instruments or affidavits in connection with obtaining, maintaining, issuing or enforcing said application(s), said inventions and improvements, and said patents, said equivalents and other legal instrument which may be necessary or desirable to carry out the purposes thereof.

I am competent to execute the above declaration and assignment. I hereby have duly executed the declaration and assignment below with my name.

Full name of inventor: LINDONG SUN

Inventor's signature: *Lindong Sun*  
[Lindong Sun] [Aug. 10, 2020] 10/20/2020

Date: Aug 10, 2020

The Assignee hereby acknowledges the assignment. The undersigned is authorized to act on behalf of the Assignee.

Assignee: TUSIMPLE, INC.

Authorized officer's legal name: Paul LIU

Authorized officer's title: Global Head of Intellectual Property

Authorized officer's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Perkins Coie LLP  
P.O. Box 1247  
Seattle, Washington 98111-1247  
Telephone: (858) 720-5700  
Facsimile: (206) 359-7198

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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In re Patent Application of:

Applicant: TUSIMPLE, INC.

Inventors: Xiaoling HAN et al.

Application No.: 16/243,821

Confirmation No.: 5468

Filing Date: January 9, 2019

Title: REAL-TIME REMOTE CONTROL OF  
VEHICLES WITH HIGH REDUNDANCY

---

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**DECLARATION AND ASSIGNMENT BY INVENTOR**  
**UNDER RULE 37 C.F.R. § 1.63**

I, Liu LIU, of San Diego, CA, hereby declare that:

I believe I am the sole original inventor or an original joint inventor of a claimed invention in a patent application entitled:

**REAL-TIME REMOTE CONTROL OF VEHICLES WITH HIGH REDUNDANCY**

which was filed on January 9, 2019, as Application No. 16/243,821, and which claims the benefit of priority of U.S. Provisional Application No. 62/615,377, filed January 9, 2018.

I believe the following persons are original joint inventors of the above-identified patent application:

Xiaoling HAN, of San Diego, California;

Charles A. PRICE, of San Diego, CA;

Lindong SUN, of San Diego, CA;

Yi WANG, of San Diego, CA; and

Ruiliang ZHANG, of San Diego, CA.

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

I have reviewed and understand the contents of the above-identified patent application including the claims.

I am aware of the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR §1.56.

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### ASSIGNMENT

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This assignment includes the entire right, title and interest in said application(s), all legal equivalents thereof in any country, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions and improvements, including, but not limited to, all divisions, continuations, reissues, reexamination certificates, any and all certificates issued in any post-grant proceeding, and extensions of said application(s) and patents of the United States, foreign patents, utility models, and design registrations, and the right to claim priority based on the filing date of said application(s) 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 the right to seek relief and recover all damages, including, but not limited to, a reasonable royalty, by reason of infringement or any other violation of patent or patent application rights. I authorize the Assignee to apply in all countries in my name or in the name of the Assignee for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements.

In addition, I hereby confirm the sale, assignment, and transfer to the Assignee of the entire right, title and interest throughout the world in said inventions and improvements by operation of an employment agreement between me and the Assignee existing at the time said inventions and improvements were made. Should I have any remaining interest, I hereby sell, assign, and transfer to the Assignee any right, title and interest I may have in said inventions and improvements anywhere in the world.

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I hereby represent and covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into that would conflict with the assignment of said inventions and improvements to the Assignee.

I further covenant for myself and my respective heirs, legal representatives and assigns, to assist the Assignee in handling various procedures, tasks and documentation in connection with this assignment, including, but not limited to, providing to the Assignee promptly upon the request of the Assignee all pertinent facts and documents relating to said invention and improvements, and said patents, said legal equivalents or other legal instrument as may be known and accessible to me and testifying as to the same in any interference, litigation, or proceeding relating thereto, and promptly executing and delivering to the Assignee or its legal representative any and all papers, documents, instruments or affidavits in connection with obtaining, maintaining, issuing or enforcing said application(s), said inventions and improvements, and said patents, said equivalents and other legal instrument which may be necessary or desirable to carry out the purposes thereof.

I am competent to execute the above declaration and assignment. I hereby have duly executed the declaration and assignment below with my name.

Full name of inventor: Liu LIU

Inventor's signature: *Liu Liu*  
(Liu Liu) (Aug 10, 2020 11:50 PDT)

Date: Aug 10, 2020

The Assignee hereby acknowledges the assignment. The undersigned is authorized to act on behalf of the Assignee.

Assignee: TUSIMPLE, INC.

Authorized officer's legal name: Paul LIU

Authorized officer's title: Global Head of Intellectual Property

Authorized officer's signature: *Paul Liu*  
(Paul Liu) (Aug 10, 2020 11:49 PDT)

Date: Aug 10, 2020

Perkins Coie LLP  
P.O. Box 1247  
Seattle, Washington 98111-1247  
Telephone: (858) 720-5700  
Facsimile: (206) 359-7198

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In re Patent Application of:

Applicant: TUSIMPLE, INC.

Inventors: Xiaoling HAN et al.

Application No.: 16/243,821

Confirmation No.: 5468

Filing Date: January 9, 2019

Title: REAL-TIME REMOTE CONTROL OF  
VEHICLES WITH HIGH REDUNDANCY

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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**DECLARATION AND ASSIGNMENT BY INVENTOR**  
**UNDER RULE 37 C.F.R. § 1.63**

I, Yi WANG, of San Diego, CA, hereby declare that:

I believe I am the sole original inventor or an original joint inventor of a claimed invention in a patent application entitled:

**REAL-TIME REMOTE CONTROL OF VEHICLES WITH HIGH REDUNDANCY**

which was filed on January 9, 2019, as Application No. 16/243,821, and which claims the benefit of priority of U.S. Provisional Application No. 62/615,377, filed January 9, 2018.

I believe the following persons are original joint inventors of the above-identified patent application:

Xiaoling HAN, of San Diego, California;

Charles A. PRICE, of San Diego, CA;

Lindong SUN, of San Diego, CA;

Liu LIU, of San Diego, CA; and

Ruiliang ZHANG, of San Diego, CA.

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

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I am aware of the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR §1.56.

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### ASSIGNMENT

I hereby assign to TUSIMPLE, INC., a corporation of CALIFORNIA, having a place of business at 9191 Towne Centre Drive, Suite 600, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in any and all inventions and improvements which are described in an application for United States Patent, entitled *REAL-TIME REMOTE CONTROL OF VEHICLES WITH HIGH REDUNDANCY*, filed on January 9, 2019, and assigned U.S. Application Number 16/243,821, and which claims the benefit of priority of U.S. Provisional Application No. 62/615,377, filed January 9, 2018.

This assignment includes the entire right, title and interest in said application(s), all legal equivalents thereof in any country, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions and improvements, including, but not limited to, all divisions, continuations, reissues, reexamination certificates, any and all certificates issued in any post-grant proceeding, and extensions of said application(s) and patents of the United States, foreign patents, utility models, and design registrations, and the right to claim priority based on the filing date of said application(s) 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 the right to seek relief and recover all damages, including, but not limited to, a reasonable royalty, by reason of infringement or any other violation of patent or patent application rights. I authorize the Assignee to apply in all countries in my name or in the name of the Assignee for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements.

In addition, I hereby confirm the sale, assignment, and transfer to the Assignee of the entire right, title and interest throughout the world in said inventions and improvements by operation of an employment agreement between me and the Assignee existing at the time said inventions and improvements were made. Should I have any remaining interest, I hereby sell, assign, and transfer to the Assignee any right, title and interest I may have in said inventions and improvements anywhere in the world.

The foregoing assignments, sale and transfer have been made for good and valuable consideration, the receipt of which is hereby acknowledged.

I hereby represent and covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into that would conflict with the assignment of said inventions and improvements to the Assignee.



I further covenant for myself and my respective heirs, legal representatives and assigns, to assist the Assignee in handling various procedures, tasks and documentation in connection with this assignment, including, but not limited to, providing to the Assignee promptly upon the request of the Assignee all pertinent facts and documents relating to said invention and improvements, and said patents, said legal equivalents or other legal instrument as may be known and accessible to me and testifying as to the same in any interference, litigation, or proceeding relating thereto, and promptly executing and delivering to the Assignee or its legal representative any and all papers, documents, instruments or affidavits in connection with obtaining, maintaining, issuing or enforcing said application(s), said inventions and improvements, and said patents, said equivalents and other legal instrument which may be necessary or desirable to carry out the purposes thereof.

I am competent to execute the above declaration and assignment. I hereby have duly executed the declaration and assignment below with my name.

Full name of inventor: YI WANG

Inventor's signature: *Yi Wang*  
(Yi Wang / Aug 13, 2020 10:27 PM)

Date: Aug 13, 2020

The Assignee hereby acknowledges the assignment. The undersigned is authorized to act on behalf of the Assignee.

Assignee: TUSIMPLE, INC.

Authorized officer's legal name: Paul LIU

Authorized officer's title: Global Head of Intellectual Property

Authorized officer's signature: *Paul Liu*  
(Paul Liu / Aug 13, 2020 10:48 PM)

Date: Aug 13, 2020

Perkins Coie LLP  
P.O. Box 1247  
Seattle, Washington 98111-1247  
Telephone: (858) 720-5700  
Facsimile: (206) 359-7198

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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In re Patent Application of:

Applicant: TUSIMPLE, INC.

Inventors: Xiaoling HAN et al.

Application No.: 16/243,821

Confirmation No.: 5468

Filing Date: January 9, 2019

Title: REAL-TIME REMOTE CONTROL OF  
VEHICLES WITH HIGH REDUNDANCY

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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**DECLARATION AND ASSIGNMENT BY INVENTOR**  
**UNDER RULE 37 C.F.R. § 1.63**

I, Ruiliang ZHANG, of San Diego, CA, hereby declare that:

I believe I am the sole original inventor or an original joint inventor of a claimed invention in a patent application entitled:

**REAL-TIME REMOTE CONTROL OF VEHICLES WITH HIGH REDUNDANCY**

which was filed on January 9, 2019, as Application No. 16/243,821 and which claims the benefit of Provisional Patent Application No. 62/615,377.

I believe the following persons are original joint inventors of the above-identified patent application:

Xiaoling HAN, of San Diego, California;

Charles A. PRICE, of San Diego, CA;

Lindong SUN, of San Diego, CA;

Liu LIU, of San Diego, CA; and

Yi WANG, of San Diego, CA.

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

I have reviewed and understand the contents of the above-identified patent application including the claims.

I am aware of the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR §1.56.

I hereby acknowledge that any willful false statement made in the above declaration is punishable under 18 USC §1001 by fine or imprisonment of not more than five (5) years, or both.

### ASSIGNMENT

I hereby assign to TUSIMPLE, INC., a corporation of CALIFORNIA, having a place of business at 9191 Towne Centre Drive, Suite 600, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in any and all inventions and improvements which are described in an application for United States Patent, entitled *REAL-TIME REMOTE CONTROL OF VEHICLES WITH HIGH REDUNDANCY*, filed on January 9, 2019, and assigned U.S. Application Number 16/243,821, and which claims the benefit of priority of U.S. Provisional Application No. 62/615,377, filed January 9, 2018.

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The foregoing assignments, sale and transfer have been made for good and valuable consideration, the receipt of which is hereby acknowledged.

I hereby represent and covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into that would conflict with the assignment of said inventions and improvements to the Assignee.

I further covenant for myself and my respective heirs, legal representatives and assigns, to assist the Assignee in handling various procedures, tasks and documentation in connection with this assignment, including, but not limited to, providing to the Assignee promptly upon the request of the Assignee all pertinent facts and documents relating to said invention and improvements, and said patents, said legal equivalents or other legal instrument as may be known and accessible to me and testifying as to the same in any interference, litigation, or proceeding relating thereto, and promptly executing and delivering to the Assignee or its legal representative any and all papers, documents, instruments or affidavits in connection with obtaining, maintaining, issuing or enforcing said application(s), said inventions and improvements, and said patents, said equivalents and other legal instrument which may be necessary or desirable to carry out the purposes thereof.

I am competent to execute the above declaration and assignment. I hereby have duly executed the declaration and assignment below with my name.

Full name of inventor: RUILIANG ZHANG

Inventor's signature: *Ruilang Zhang*  
(Ruilang Zhang) (Aug 10, 2020 08:20 PWT)

Date: Aug 10, 2020

The Assignee hereby acknowledges the assignment. The undersigned is authorized to act on behalf of the Assignee.

Assignee: TUSIMPLE, INC.

Authorized officer's legal name: Paul LIU

Authorized officer's title: Global Head of Intellectual Property

Authorized officer's signature: *Paul Liu*  
(Paul Liu) (Aug 10, 2020 10:58 PWT)

Date: Aug 10, 2020

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