10/16/2024 508818387

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 Assignment ID: PATI568410

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Chuangxin Jiang	07/16/2019
Nan Zhang	07/17/2019
Zhaohua Lu	07/16/2019
Yu Ngok Li	07/18/2019
Bo Gao	07/17/2019
Hao Wu	07/16/2019
Meng Mei	07/16/2019

RECEIVING PARTY DATA

Company Name:	ZTE Corporation
Street Address:	ZTE Plaza, Keji Road South
Internal Address:	Hi-Tech Industrial Park, Nanshan District
City:	Shenzhen
State/Country:	CHINA
Postal Code:	518057

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	18192470

CORRESPONDENCE DATA

2063597198 Fax Number:

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: 8587205700

patentprocurement@perkinscoie.com Email:

Correspondent Name: Vinay Sathe Address Line 1: P.O. Box 1247

Address Line 4: Seattle, WASHINGTON 98111-1247

ATTORNEY DOCKET NUMBER:	125096.8532.US02
NAME OF SUBMITTER:	Kumiko Alexander
SIGNATURE:	Kumiko Alexander

PATENT REEL: 069213 FRAME: 0503

508818387

DATE SIGNED:	10/16/2024
Total Attachments: 21	
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Applicant(s): ZTE Corporation

Inventor(s): Chuangxin Jiang et al.

Application No.: Not yet assigned

Filing Date: Herewith

Title: METHOD FOR INDICATING REFERENCE SIGNAL CONFIGURATION INFORMATION, BASE STATION, AND TERMINAL

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, Chuangxin Jiang, of Shenzhen, Guangdong, P.R. China, 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:

METHOD FOR INDICATING REFERENCE SIGNAL CONFIGURATION INFORMATION, BASE STATION, AND TERMINAL

which is attached hereto and identified as Attorney Docket No. 125096-8532.US00, and which is a continuation of and claims priority to International Patent Application No. PCT/CN2018/097244, filed on July 26, 2018, which claims the benefit of priority of Chinese Patent Application No. 201710677499.3, filed on August 9, 2017.

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

Nan Zhang, of Shenzhen, Guangdong, P.R. China;

Zhaohua Lu, of Shenzhen, Guangdong, P.R. China;

Yu Ngok Li, of Shenzhen, Guangdong, P.R. China;

Bo Gao, of Shenzhen, Guangdong, P.R. China;

Hao Wu, of Shenzhen, Guangdong, P.R. China; and

Meng Mei, of Shenzhen, Guangdong, P.R. China.

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144222010	1

Inventor: Chuangxin Jiang et al. Appl. No.: Not yet assigned

Filed: Herewith Page: 2 of 3

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 ZTE Corporation, a corporation of P.R. China, having a place of business at ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong 518057, P.R. China, 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 METHOD FOR INDICATING REFERENCE SIGNAL CONFIGURATION INFORMATION, BASE STATION, AND TERMINAL, filed on February 4, 2020, and assigned U.S. Application Number 16/782,055, and which is a continuation of and claims priority to International Patent Application No. PCT/CN2018/097244, filed on July 26, 2018, which claims the benefit of priority of Chinese Patent Application No. 201710677499.3, filed on August 9, 2017. I authorize and request an attorney appointed in said application to hereafter insert above the filing date and application number of said application when known.

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

- 10 -	
144923046.1	

Inventor : Chuangxin Jiang et al. Appl. No.: Not yet assigned

: Herewith Filed : 3 of 3 Page

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:	CHUANGXIN J	IANG	
Inventor's signature:	Chuangxih	Jiang	
Date: 20(0, 7	7.16	·	

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

Facsimile: (206) 359-7198

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Docket No. 125096-8532, US00

Docket No. 125096-8532 US00 (PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Applicant(s): ZTE Corporation

Inventor(s): Chuangxin Jiang et al.

Application No.: Not yet assigned

Filing Date: Herewith

Title: METHOD FOR INDICATING REFERENCE SIGNAL CONFIGURATION INFORMATION, BASE STATION, AND TERMINAL

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

<u>DECLARATION AND ASSIGNMENT BY INVENTOR</u> <u>UNDER RULE 37 C.F.R.</u> § 1.63

I, Nan Zhang, of Shenzhen, Guangdong, P.R. China, 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:

METHOD FOR INDICATING REFERENCE SIGNAL CONFIGURATION INFORMATION, BASE STATION, AND TERMINAL

which is attached hereto and identified as Attorney Docket No. 125096-8532.US00, and which is a continuation of and claims priority to International Patent Application No. PCT/CN2018/097244, filed on July 26, 2018, which claims the benefit of priority of Chinese Patent Application No. 201710677499.3, filed on August 9, 2017.

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

Chuangxin Jiang, of Shenzhen, Guangdong, P.R. China;

Zhaohua Lu, of Shenzhen, Guangdong, P.R. China;

Yu Ngok Li, of Shenzhen, Guangdong, P.R. China;

Bo Gao, of Shenzhen, Guangdong, P.R. China;

Hao Wu, of Shenzhen, Guangdong, P.R. China; and

Meng Mei, of Shenzhen, Guangdong, P.R. China.

Inventor : Chuangxin Jiang et al. Docket No. 125096-8532.US00

Appl. No. : Not yet assigned Filed : Herewith Page : 2 of 3

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 ZTE Corporation, a corporation of P.R. China, having a place of business at ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong 518057, P.R. China, 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 METHOD FOR INDICATING REFERENCE SIGNAL CONFIGURATION INFORMATION, BASE STATION, AND TERMINAL, filed on February 4, 2020, and assigned U.S. Application Number 16/782,055, and which is a continuation of and claims priority to International Patent Application No. PCT/CN2018/097244, filed on July 26, 2018, which claims the benefit of priority of Chinese Patent Application No. 201710677499.3, filed on August 9, 2017. I authorize and request an attorney appointed in said application to hereafter insert above the filing date and application number of said application when known.

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

Inventor : Chuangxin Jiang et al.
Appl. No. : Not yet assigned
Filed : Herewith

Page : 3 of 3

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:	NAN ZHA	.NG	
Inventor's signature:	NBN	2HBNG	
Date: 2019.7	1-17		

Perkins Coie LLP P.O. Box 1247 Seattle, Washington 98111-1247

Telephone: (858) 720-5700 Facsimile: (206) 359-7198

Docket No. 125096-8532.US00 (PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Applicant(s): ZTE Corporation

Inventor(s): Chuangxin Jiang et al.

Application No.: Not yet assigned

Filing Date: Herewith

Title: METHOD FOR INDICATING REFERENCE SIGNAL CONFIGURATION INFORMATION, BASE STATION, AND TERMINAL

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

<u>UNDER RULE 37 C.F.R. § 1.63</u>

I, Zhaohua Lu, of Shenzhen, Guangdong, P.R. China, 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:

METHOD FOR INDICATING REFERENCE SIGNAL CONFIGURATION INFORMATION, BASE STATION, AND TERMINAL

which is attached hereto and identified as Attorney Docket No. 125096-8532.US00, and which is a continuation of and claims priority to International Patent Application No. PCT/CN2018/097244, filed on July 26, 2018, which claims the benefit of priority of Chinese Patent Application No. 201710677499.3, filed on August 9, 2017.

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

Chuangxin Jiang, of Shenzhen, Guangdong, P.R. China;

Nan Zhang, of Shenzhen, Guangdong, P.R. China;

Yu Ngok Li, of Shenzhen, Guangdong, P.R. China;

Bo Gao, of Shenzhen, Guangdong, P.R. China;

Hao Wu, of Shenzhen, Guangdong, P.R. China; and

Meng Mei, of Shenzhen, Guangdong, P.R. China.

144983962.1

Inventor : Chuangxin Jiang et al. Appl. No. : Not yet assigned

Filed : Herewith Page : 2 of 3

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 ZTE Corporation, a corporation of P.R. China, having a place of business at ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong 518057, P.R. China, 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 METHOD FOR INDICATING REFERENCE SIGNAL CONFIGURATION INFORMATION, BASE STATION, AND TERMINAL, filed on February 4, 2020, and assigned U.S. Application Number 16/782,055, and which is a continuation of and claims priority to International Patent Application No. PCT/CN2018/097244, filed on July 26, 2018, which claims the benefit of priority of Chinese Patent Application No. 201710677499.3, filed on August 9, 2017. I authorize and request an attorney appointed in said application to hereafter insert above the filing date and application number of said application when known.

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

Inventor : Chuangxin Jiang et al. Appl. No. : Not yet assigned

Filed : Herewith Page : 3 of 3

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 inv	ventor: ZHAOHUA LU	Lu, Zhao hua
Inventor's signa	ture:	LA) C
Date:	2019-7-16	

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

Facsimile: (206) 359-7198

Docket No. 125096-8532.US00 (PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Applicant(s): ZTE Corporation

Inventor(s): Chuangxin Jiang et al.

Application No.: Not yet assigned

Filing Date: Herewith

Title: METHOD FOR INDICATING REFERENCE SIGNAL CONFIGURATION INFORMATION, BASE STATION, AND TERMINAL

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

<u>DECLARATION AND ASSIGNMENT BY INVENTOR</u> <u>UNDER RULE 37 C.F.R. § 1.63</u>

I, Yu Ngok Li, of Shenzhen, Guangdong, P.R. China, 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:

METHOD FOR INDICATING REFERENCE SIGNAL CONFIGURATION INFORMATION, BASE STATION, AND TERMINAL

which is attached hereto and identified as Attorney Docket No. 125096-8532.US00, and which is a continuation of and claims priority to International Patent Application No. PCT/CN2018/097244, filed on July 26, 2018, which claims the benefit of priority of Chinese Patent Application No. 201710677499.3, filed on August 9, 2017.

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

Chuangxin Jiang, of Shenzhen, Guangdong, P.R. China;

Nan Zhang, of Shenzhen, Guangdong, P.R. China;

Zhaohua Lu, of Shenzhen, Guangdong, P.R. China;

Bo Gao, of Shenzhen, Guangdong, P.R. China;

Hao Wu, of Shenzhen, Guangdong, P.R. China; and

Meng Mei, of Shenzhen, Guangdong, P.R. China.

144983967.1

Docket No. 125096-8532.US00 Inventor : Chuangxin Jiang et al.

Appl. No. : Not yet assigned Filed: Herewith

Page : 2 of 3

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 ZTE Corporation, a corporation of P.R. China, having a place of business at ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong 518057, P.R. China, 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 METHOD FOR INDICATING REFERENCE SIGNAL CONFIGURATION INFORMATION, BASE STATION, AND TERMINAL, filed on February 4, 2020, and assigned U.S. Application 16/782,055 and which is a continuation of and claims priority to International Patent Application No. PCT/CN2018/097244, filed on July 26, 2018, which claims the benefit of priority of Chinese Patent Application No. 201710677499.3, filed on August 9, 2017. I authorize and request an attorney appointed in said application to hereafter insert above the filing date and application number of said application when known.

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

Docket No. 125096-8532.US00 Inventor : Chuangxin Jiang et al.

Appl. No. : Not yet assigned : Herewith

Filed Page : 3 of 3

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: YU NGOK LI Inventor's signature:

July 18th 2019

Perkins Coie LLP P.O. Box 1247

Seattle, Washington 98111-1247

Telephone: (858) 720-5700 Facsimile: (206) 359-7198

Docket No. 125096-8532.US00 (PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Applicant(s): ZTE Corporation

Inventor(s): Chuangxin Jiang et al.

Application No.: Not yet assigned

Filing Date: Herewith

Title: METHOD FOR INDICATING REFERENCE SIGNAL CONFIGURATION INFORMATION, BASE STATION, AND TERMINAL

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

<u>UNDER RULE 37 C.F.R. § 1.63</u>

I, <u>Bo Gao</u>, of <u>Shenzhen</u>, <u>Guangdong</u>, <u>P.R. China</u>, 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:

METHOD FOR INDICATING REFERENCE SIGNAL CONFIGURATION INFORMATION, BASE STATION, AND TERMINAL

which is attached hereto and identified as Attorney Docket No. 125096-8532.US00, and which is a continuation of and claims priority to International Patent Application No. PCT/CN2018/097244, filed on July 26, 2018, which claims the benefit of priority of Chinese Patent Application No. 201710677499.3, filed on August 9, 2017.

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

Chuangxin Jiang, of Shenzhen, Guangdong, P.R. China;

Nan Zhang, of Shenzhen, Guangdong, P.R. China;

Zhaohua Lu, of Shenzhen, Guangdong, P.R. China;

Yu Ngok Li, of Shenzhen, Guangdong, P.R. China;

Hao Wu, of Shenzhen, Guangdong, P.R. China; and

Meng Mei, of Shenzhen, Guangdong, P.R. China.

144983972.1

Inventor : Chuangxin Jiang et al. Appl. No. : Not yet assigned

Filed : Herewith Page : 2 of 3

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 ZTE Corporation, a corporation of P.R. China, having a place of business at ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong 518057, P.R. China, 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 METHOD FOR INDICATING REFERENCE SIGNAL CONFIGURATION INFORMATION, BASE STATION, AND TERMINAL, filed on February 4, 2020, and assigned U.S. Application Number 16/782,055, and which is a continuation of and claims priority to International Patent Application No. PCT/CN2018/097244, filed on July 26, 2018, which claims the benefit of priority of Chinese Patent Application No. 201710677499.3, filed on August 9, 2017. I authorize and request an attorney appointed in said application to hereafter insert above the filing date and application number of said application when known.

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

Inventor: Chuangxin Jiang et al. Appl. No.: Not yet assigned Filed: Herewith

Page : 3 of 3

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:	BOGAO
Inventor's signature:	Bo Gas
Date: 23/9.	7.17

Perkins Coie LLP P.O. Box 1247

Seattle, Washington 98111-1247

Telephone: (858) 720-5700 Facsimile: (206) 359-7198

Docket No. 125096-8532,US00 (PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Applicant(s): ZTE Corporation

Inventor(s): Chuangxin Jiang et al.

Application No.: Not yet assigned

Filing Date: Herewith

Title: METHOD FOR INDICATING REFERENCE SIGNAL CONFIGURATION INFORMATION, BASE STATION, AND TERMINAL

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, Hao Wu, of Shenzhen, Guangdong, P.R. China, 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:

METHOD FOR INDICATING REFERENCE SIGNAL CONFIGURATION INFORMATION, BASE STATION, AND TERMINAL

which is attached hereto and identified as Attorney Docket No. 125096-8532.US00, and which is a continuation of and claims priority to International Patent Application No. PCT/CN2018/097244, filed on July 26, 2018, which claims the benefit of priority of Chinese Patent Application No. 201710677499.3, filed on August 9, 2017.

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

Chuangxin Jiang, of Shenzhen, Guangdong, P.R. China;

Nan Zhang, of Shenzhen, Guangdong, P.R. China;

Zhaohua Lu, of Shenzhen, Guangdong, P.R. China;

Yu Ngok Li, of Shenzhen, Guangdong, P.R. China;

Bo Gao, of Shenzhen, Guangdong, P.R. China; and

Meng Mei, of Shenzhen, Guangdong, P.R. China.

144983973.1

Inventor : Chuangxin Jiang et al. Appl. No. : Not yet assigned

Filed: Herewith Page: 2 of 3

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 ZTE Corporation, a corporation of P.R. China, having a place of business at ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong 518057, P.R. China, 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 METHOD FOR INDICATING REFERENCE SIGNAL CONFIGURATION INFORMATION, BASE STATION, AND TERMINAL, filed on February 4, 2020, and assigned U.S. Application Number 16/782,055, and which is a continuation of and claims priority to International Patent Application No. PCT/CN2018/097244, filed on July 26, 2018, which claims the benefit of priority of Chinese Patent Application No. 201710677499.3, filed on August 9, 2017. I authorize and request an attorney appointed in said application to hereafter insert above the filing date and application number of said application when known.

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

Inventor : Chuangxin Jiang et al. Docket No. 125096-8532.US00

Appl. No.: Not yet assigned

Filed : Herewith Page : 3 of 3

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: HAO WU

Inventor's signature: Www.

Date: 2019 - 7 - 16

Perkins Coie LLP P.O. Box 1247

Seattle, Washington 98111-1247 Telephone: (858) 720-5700

Facsimile: (206) 359-7198

Docket No. 125096-8532.US00 (PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Applicant(s): ZTE Corporation

Inventor(s): Chuangxin Jiang et al.

Application No.: Not yet assigned

Filing Date: Herewith

Title: METHOD FOR INDICATING REFERENCE SIGNAL CONFIGURATION INFORMATION, BASE STATION, AND TERMINAL

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

<u>DECLARATION AND ASSIGNMENT BY INVENTOR</u> <u>UNDER RULE 37 C.F.R. § 1.63</u>

I, Meng Mei, of Shenzhen, Guangdong, P.R. China, 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:

METHOD FOR INDICATING REFERENCE SIGNAL CONFIGURATION INFORMATION, BASE STATION, AND TERMINAL

which is attached hereto and identified as Attorney Docket No. 125096-8532.US00, and which is a continuation of and claims priority to International Patent Application No. PCT/CN2018/097244, filed on July 26, 2018, which claims the benefit of priority of Chinese Patent Application No. 201710677499.3, filed on August 9, 2017.

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

Chuangxin Jiang, of Shenzhen, Guangdong, P.R. China;

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Zhaohua Lu, of Shenzhen, Guangdong, P.R. China;

Yu Ngok Li, of Shenzhen, Guangdong, P.R. China;

Bo Gao, of Shenzhen, Guangdong, P.R. China; and

Hao Wu, of Shenzhen, Guangdong, P.R. China.

144983982.1

Inventor : Chuangxin Jiang et al.

Appl. No. : Not yet assigned

Filed: Herewith Page: 2 of 3

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.

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144983982.1

PATENT REEL: 069213 FRAME: 0524

Docket No. 125096-8532.US00

Inventor : Chuangxin Jiang et al. Docket No. 125096-8532.US00

Appl. No.: Not yet assigned
Filed: Herewith

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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: MENG MEI

Inventor's signature: MENG MEI

Date: 2019-7-16

Perkins Coie LLP P.O. Box 1247

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RECORDED: 10/16/2024