506394685 12/09/2020

EPAS ID: PAT6441441

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

 SUBMISSION TYPE:
 NEW ASSIGNMENT

 NATURE OF CONVEYANCE:
 ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MENGZHU CHEN	12/07/2020
JIN XU	12/07/2020
JUN XU	12/07/2020

RECEIVING PARTY DATA

Name:	ZTE CORPORATION
Street Address:	ZTE PLAZA, KEJI ROAD SOUTH
Internal Address:	HI-TECH INDUSTRIAL PARK, NANSHAN DISTRICT
City:	SHENZHEN, GUANGDONG
State/Country:	CHINA
Postal Code:	518057

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16505688

CORRESPONDENCE DATA

Fax Number: (206)332-7198

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: 3107889900

Email: patentprocurement@perkinscoie.com

Correspondent Name: PERKINS COIE LLP - LOS GENERAL

Address Line 1: P.O. BOX 1247

Address Line 4: SEATTLE, WASHINGTON 98111-1247

ATTORNEY DOCKET NUMBER:	125096-8542.US00
NAME OF SUBMITTER:	KUMIKO ALEXANDER
SIGNATURE:	/Kumiko Alexander/
DATE SIGNED:	12/09/2020
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 9

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PATENT REEL: 054598 FRAME: 0747

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Docket No. 125096-8542.US00 (PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Applicant(s): ZTE Corporation

Inventor(s): Mengzhu Chen et al.

Application No.: 16/505,688 Confirmation No.: 3299

Filing Date: July 8, 2019

Title: RATE MATCHING METHOD AND APPARATUS FOR POLAR CODE

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, Mengzhu Chen, 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:

RATE MATCHING METHOD AND APPARATUS FOR POLAR CODE

which was filed on July 8, 2019, as Application No. 16/505,688, which is a continuation of and claims the benefit of priority to International Patent Application No. PCT/CN2018/071956, filed on January 9, 2018, which claims the benefit of priority to Chinese Patent Application No. 201710056532.0, filed on January 25, 2017, and Chinese Patent Application No. 201710014289.6, filed on January 9, 2017.

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

Jin Xu, of Shenzhen, Guangdong, P.R. China; and Jun Xu, of Shenzhen, Guangdong, P.R. China.

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.

Docket No. 125096-8542.US00

Inventor : Mengzhu Chen et al.

Appl. No. : 16/505,688 Filed : July 8, 2019 Page : 2 of 3

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 *RATE MATCHING METHOD AND APPARATUS FOR POLAR CODE*, filed on July 8, 2019, and assigned U.S. Application Number 16/505,688, which is a continuation of and claims the benefit of priority to International Patent Application No. PCT/CN2018/071956, filed on January 9, 2018, which claims the benefit of priority to Chinese Patent Application No. 201710056532.0, filed on January 25, 2017, and Chinese Patent Application No. 201710014289.6, filed on January 9, 2017.

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.

144922924.1

Inventor : Mengzhu Chen et al.

Appl. No.: 16/505,688 Filed: July 8, 2019

Page: 3 of 3

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: MENGZHU CHEN

Inventor's signature: Mengzhu OHFN

Date: 2000-12-7

Perkins Coie LLP P.O. Box 1247

Seattle, Washington 98111-1247

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

144922924.1

PATENT REEL: 054598 FRAME: 0751

Docket No. 125096-8542.US00

Docket No. 125096-8542.US00 (PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Applicant(s): ZTE Corporation

Inventor(s): Mengzhu Chen et al.

Application No.: 16/505,688

Confirmation No.: 3299

Filing Date: July 8, 2019

Title: RATE MATCHING METHOD AND APPARATUS FOR POLAR CODE

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, Jin Xu, 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:

RATE MATCHING METHOD AND APPARATUS FOR POLAR CODE

which was filed on July 8, 2019, as Application No. 16/505,688, which is a continuation of and claims the benefit of priority to International Patent Application No. PCT/CN2018/071956, filed on January 9, 2018, which claims the benefit of priority to Chinese Patent Application No. 201710056532.0, filed on January 25, 2017, and Chinese Patent Application No. 201710014289.6, filed on January 9, 2017.

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Mengzhu Chen, of Shenzhen, Guangdong, P.R. China; and Jun Xu, of Shenzhen, Guangdong, P.R. China.

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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.

145626116.1

Docket No. 125096-8542.US00 Inventor : Mengzhu Chen et al.

Appl. No.: 16/505,688 Filed : July 8, 2019

: 2 of 3 Page

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ASSIGNMENT

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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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145626116.1

Docket No. 125096-8542.US00 Inventor : Mengzhu Chen et al.

Appl. No.: 16/505,688 Filed : July 8, 2019

Page : 3 of 3

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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: JIN XU

Inventor's signature: [in Xu

Perkins Coie LLP P.O. Box 1247

Seattle, Washington 98111-1247

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

145626116.1

Docket No. 125096-8542.US00 (PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Applicant(s): ZTE Corporation Inventor(s): Mengzhu Chen et al.

Application No.: 16/505,688

Confirmation No.: 3299

Filing Date: July 8, 2019

Title: RATE MATCHING METHOD AND APPARATUS FOR POLAR CODE

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, Jun Xu, 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:

RATE MATCHING METHOD AND APPARATUS FOR POLAR CODE

which was filed on July 8, 2019, as Application No. 16/505,688, which is a continuation of and claims the benefit of priority to International Patent Application No. PCT/CN2018/071956, filed on January 9, 2018, which claims the benefit of priority to Chinese Patent Application No. 201710056532.0, filed on January 25, 2017, and Chinese Patent Application No. 201710014289.6, filed on January 9, 2017.

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Mengzhu Chen, of Shenzhen, Guangdong, P.R. China; and Jin Xu, of Shenzhen, Guangdong, P.R. China.

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.

145626128.1

Inventor : Mengzhu Chen et al. Docket No. 125096-8542.US00

Appl. No. : 16/505,688 Filed : July 8, 2019 Page : 2 of 3

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145626128.1

Inventor : Mengzhu Chen et al.

Appl. No.: 16/505,688

Filed : July 8, 2019

Page : 3 of 3

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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: JUN XU

Inventor's signature: JUN XU

Date: 2020-12-7

Perkins Coie LLP P.O. Box 1247

Seattle, Washington 98111-1247

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

145626128.1

PATENT REEL: 054598 FRAME: 0757

Docket No. 125096-8542.US00

RECORDED: 12/09/2020