

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5362048

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
XING LIU	01/31/2019
FENG BI	01/31/2019
JUNFENG ZHANG	01/30/2019
PENG HAO	01/30/2019
BO GAO	01/31/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ZTE CORPORATION
<b>Street Address:</b>	ZTE PLAZA, KEJI ROAD SOUTH
<b>Internal Address:</b>	HI-TECH INDUSTRIAL PARK, NANSHAN
<b>City:</b>	SHENZHEN, GUANGDONG
<b>State/Country:</b>	CHINA
<b>Postal Code:</b>	518057
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16323339
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(617)342-4001
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	6173424000
<b>Email:</b>	kquebec@foley.com, ipdocketing@foley.com
<b>Correspondent Name:</b>	MENG H. PUA
<b>Address Line 1:</b>	FOLEY & LARDNER LLP
<b>Address Line 2:</b>	111 HUNTINGTON AVENUE, SUITE 2500
<b>Address Line 4:</b>	BOSTON, MASSACHUSETTS 02199
<b>ATTORNEY DOCKET NUMBER:</b>	118517-0134
<b>NAME OF SUBMITTER:</b>	KAYLA M. QUEBEC
<b>SIGNATURE:</b>	/Kayla M. Quebec/
<b>DATE SIGNED:</b>	02/06/2019

**Total Attachments: 5**

source=2019-02-06\_EX190111PPE-US\_Assignment#page1.tif

source=2019-02-06\_EX190111PPE-US\_Assignment#page2.tif

source=2019-02-06\_EX190111PPE-US\_Assignment#page3.tif

source=2019-02-06\_EX190111PPE-US\_Assignment#page4.tif

source=2019-02-06\_EX190111PPE-US\_Assignment#page5.tif

**转让证明**  
**ASSIGNMENT**

代理人档案号(限 12 个字符内): Agent's file reference: (12 characters maximum)	
国际申请号: International application number:	PCT/CN2017/082899
国际申请日: International filing date:	2017-05-03
<p>鉴于壹圆人民币以及其他有益且充分的考虑, 本人特此将上述国际申请和在此国际申请中所公开的本发明创造, 以及要求此国际申请有关权利的任何接续申请或分案申请, 以及要求此国际申请优先权的任何外国申请的所有权益转让给</p> <p>In consideration of One Chinese RMB and other good and sufficient consideration, I hereby assign my interest in the above-identified international patent application and the invention disclosed therein, and any continuation or divisional application claiming the benefit therefrom, and any foreign patent application claiming priority therefrom,</p> <p>to <u>ZTE CORPORATION</u></p> <p>其位于</p> <p>having an address at <u>ZTE Plaza, Keji Road South, Hi-Tech Industrial Park Nanshan Shenzhen, Guangdong 518057, China</u></p> <p>本人授权代理人在得知本案国际申请号及国际申请日后将其填入上方。</p> <p>I authorize the agent to insert the international application number and international filing date above when they are known.</p>	
发明人签字 Inventor's signature	<u>LIU Xing</u>
发明人全名 Printed inventor's Name	<u>LIU, Xing</u>
日期 Date signed	<u>2019 - 01 - 31</u>

**转让证明**  
**ASSIGNMENT**

代理人档案号(限 12 个字符内): Agent's file reference: (12 characters maximum)	
国际申请号: International application number:	PCT/CN2017/082899
国际申请日: International filing date:	2017-05-03

鉴于壹圆人民币以及其他有益且充分的考虑, 本人特此将上述国际申请和在此国际申请中所公开的本发明创造, 以及要求此国际申请有关权利的任何接续申请或分案申请, 以及要求此国际申请优先权的任何外国申请的所有权益转让给

In consideration of One Chinese RMB and other good and sufficient consideration, I hereby assign my interest in the above-identified international patent application and the invention disclosed therein, and any continuation or divisional application claiming the benefit therefrom, and any foreign patent application claiming priority therefrom,

to ZTE CORPORATION

其位于

having an address at ZTE Plaza, Keji Road South, Hi-Tech Industrial Park Nanshan Shenzhen, Guangdong 518057, China

本人授权代理人在得知本案国际申请号及国际申请日后将其填入上方。

I authorize the agent to insert the international application number and international filing date above when they are known.

发明人签字  
Inventor's signature BI, Feng

发明人全名  
Printed inventor's Name BI, Feng

日期  
Date signed 2019-1-31

**转让证明**  
**ASSIGNMENT**

代理人档案号(限12个字符内): Agent's file reference: (12 characters maximum)	
国际申请号: International application number:	PCT/CN2017/082899
国际申请日: International filing date:	2017-05-03
<p>鉴于壹圆人民币以及其他有益且充分的考虑, 本人特此将上述国际申请和在此国际申请中所公开的本发明创造, 以及要求此国际申请有关权利的任何接续申请或分案申请, 以及要求此国际申请优先权的任何外国申请的所有权益转让给</p> <p>In consideration of One Chinese RMB and other good and sufficient consideration, I hereby assign my interest in the above-identified international patent application and the invention disclosed therein, and any continuation or divisional application claiming the benefit therefrom, and any foreign patent application claiming priority therefrom,</p> <p>to <u>ZTE CORPORATION</u></p> <p>其位于</p> <p>having an address at <u>ZTE Plaza, Keji Road South, Hi-Tech Industrial Park Nanshan Shenzhen, Guangdong 518057, China</u></p> <p>本人授权代理人在得知本案国际申请号及国际申请日后将其填入上方。</p> <p>I authorize the agent to insert the international application number and international filing date above when they are known.</p>	
发明人签字 Inventor's signature	<u>ZHANG Junfeng</u>
发明人全名 Printed inventor's Name	ZHANG, Junfeng
日期 Date signed	<u>2019-1-30</u>

**转让证明**  
**ASSIGNMENT**

代理人档案号(限12个字符内): Agent's file reference: (12 characters maximum)	
国际申请号: International application number:	PCT/CN2017/082899
国际申请日: International filing date:	2017-05-03

鉴于壹圆人民币以及其他有益且充分的考虑, 本人特此将上述国际申请和在此国际申请中所公开的本发明创造, 以及要求此国际申请有关权利的任何接续申请或分案申请, 以及要求此国际申请优先权的任何外国申请的所有权益转让给

In consideration of One Chinese RMB and other good and sufficient consideration, I hereby assign my interest in the above-identified international patent application and the invention disclosed therein, and any continuation or divisional application claiming the benefit therefrom, and any foreign patent application claiming priority therefrom,

to ZTE CORPORATION

其位于

having an address at ZTE Plaza, Keji Road South, Hi-Tech Industrial Park Nanshan Shenzhen, Guangdong 518057, China

本人授权代理人在得知本案国际申请号及国际申请日后将其填入上方。

I authorize the agent to insert the international application number and international filing date above when they are known.

发明人签字  
Inventor's signature

*HAO Peng*

发明人全名  
Printed inventor's Name

HAO, Peng

日期  
Date signed

2019-1-30

**转让证明**  
**ASSIGNMENT**

代理人档案号(限 12 个字符内): Agent's file reference: (12 characters maximum)	
国际申请号: International application number:	PCT/CN2017/082899
国际申请日: International filing date:	2017-05-03

鉴于壹圆人民币以及其他有益且充分的考虑, 本人特此将上述国际申请和在此国际申请中所公开的本发明创造, 以及要求此国际申请有关权利的任何接续申请或分案申请, 以及要求此国际申请优先权的任何外国申请的所有权益转让给

In consideration of One Chinese RMB and other good and sufficient consideration, I hereby assign my interest in the above-identified international patent application and the invention disclosed therein, and any continuation or divisional application claiming the benefit therefrom, and any foreign patent application claiming priority therefrom,

to ZTE CORPORATION

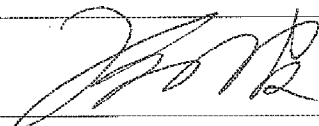
其位于

having an address at ZTE Plaza, Keji Road South, Hi-Tech Industrial Park Nanshan Shenzhen, Guangdong 518057, China

本人授权代理人在得知本案国际申请号及国际申请日后将其填入上方。

I authorize the agent to insert the international application number and international filing date above when they are known.

发明人签字  
Inventor's signature



发明人全名  
Printed inventor's Name                      GAO, Bo

日期  
Date signed                      2019-1-31