

ASSIGNMENT

This Assignment is made by:

Krishna Chitti

**Neversvägen 41, Lgh 1303,
SE- 22479 LUND
Sweden**

Andreas Cedergren

**Bryggvägen 1A
SE-237 36 BJÄRRED
Sweden**

Robert Harrison

**3208 Walker Place
76051 GRAPEVINE TX
United States of America**

Zhipeng Lin

**No. 32, Chi Tian Road Jiangning Dev
Zone
211100 NANJING Jiangsu
China**

Jonas Sedin

**Johannesbergsplan 4
SE-191 38 SOLLENTUNA
Sweden**

(hereinafter referred to as "Assignor(s)") in favor, and for the benefit and behoof of, Telefonaktiebolaget LM Ericsson (publ), a corporation duly organized under and pursuant to the laws of Sweden and having its principal place of business at SE-164 83 Stockholm, Sweden (hereinafter referred to as "Assignee").

For good, sufficient and adequate consideration, the receipt of which is hereby acknowledged, the Assignor(s) have, as of the Effective Date, sold, assigned, transferred, and set over, and by these presents, and to the extent any transferable or assignable rights still remain with the inventor, do hereby sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns the entire right, title, and interest in and to the following inventions, application(s) for Letters Patent, and any and all Letters Patent or Patents in all countries and pursuant to all multilateral treaty organizations, including Sweden, the United States of America, the Patent Cooperation Treaty and European Patent Convention, that may be granted therefor and thereon, and in and to any and all divisions, continuations, continuations-in-part, conversions and utility models of said application(s), and reissues and extensions of said Letters Patent or Patents, the same to be held and enjoyed by the Assignee, for its use and behoof and the use and the behoof of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent, Patents and Utility Models may be granted as fully and entirely as the same would have been held and enjoyed by the Assignor(s) had this sale and assignment not been made:

ASSIGNMENT

Resource balance between msgA preamble and msgA PUSCH in 2-step RACH

including, but not limited to, the application(s) for Letters Patent and Utility Model filed in:

Country	Application No.	File Date
PCT	PCT/SE2020/051064	November 05, 2020

The Effective date is the earliest date of the above listed Filing Date(s).

Assignor(s) hereby authorize and request Assignee's Attorneys to insert the serial number and filing date of said application(s) for Letter Patent or Utility Model, when known. The assignment of the above mentioned rights includes a transfer of the whole right to use a priority (including priority according to any convention, multilateral agreement, bilateral agreement and national law) of the above mentioned application(s) for Letter Patent and Utility Model in all countries and multilateral treaty organizations wherein no residual rights shall remain with the Assignor(s). Assignor(s) hereby request that said Letters Patent, Patent or Utility Model be issued to Assignee as the Assignee of said inventions, the Letters Patent, Patent or Utility Model to be issued for the sole use and behoof of the Assignee, its successors, legal representatives, and assigns. Assignee alone hereinafter has the entire disposal of the invention and possesses entire ownership to any domestic and foreign patents or utility models granted thereafter. The rights granted hereunder shall include all rights to institute legal actions, obtain remedies and recover and retain damages in respect to said Letters Patent, Patent or Utility Model.

The Assignor(s) and Assignee hereby understand and agree that with the execution of this Assignment, to the extent necessary or appropriate, national and/or regional applications may be filed by the Assignee as the applicant and on behalf of the assignor.

To the extent Assignee is entitled to receive the rights hereunder pursuant to this Assignment, each of the Assignor(s) hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of the Effective Date, the Assignor(s) were the sole and lawful owners of the entire right, title, and interest in and to the inventions and application(s) for Letters Patent or Utility Models above-mentioned, and that the same are unencumbered, and that the Assignor(s) have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

Further, and for the same consideration, the Assignor(s) hereby covenant(s) and agree(s) to and with the Assignee, its successors, legal representatives, and assigns that the Assignor(s) will, whenever counsel of the Assignee, or the counsel of its successors, legal representatives, and assigns, shall advise that any proceeding in connection with said inventions or said application(s) for Letters Patent, or any proceeding in connection with Letters Patent or Utility Model for said inventions, in any country and any multilateral treaty organization, including interference proceedings, is lawful and desirable, or that any division, continuation, continuation-in-part, conversion or Utility Model of any application(s) for Letters Patent or Utility Model, or any reissue or extension of any Letters Patent to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent or Utility Model for said inventions, without

ASSIGNMENT

charge to Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns. If any of the Assignor(s) is prevented by any obstacles from signing said documents in person, this Assignment shall be valid as a Power of Attorney for the Assignee to sign these documents on behalf of any such Assignor(s) or, in the event of the death of the latter, the estate thereof.

This Assignment shall be governed by and construed under, and any dispute, controversy or claim related hereto shall be decided in accordance with, the laws of:

[United States]

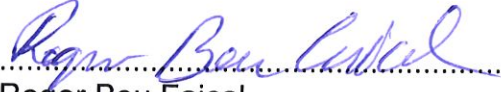
without regard to the conflicts of laws provisions thereof. Any dispute, controversy or claim arising under, out of or relating to this Assignment and any subsequent amendments of this Assignment, including, without limitation, its formation, validity, binding effect, interpretation, performance, breach or termination, as well as non-contractual claims, shall be referred to and finally determined by arbitration in accordance with the WIPO Arbitration Rules. The arbitral tribunal shall consist of a sole arbitrator. The place of arbitration shall be in the country of the inventor's residence. The language to be used in the arbitral proceedings shall be English.

No modifications shall be made to this Assignment unless in writing and signed by each of the Assignor(s) and Assignee. If any of the provisions of this Assignment shall be deemed invalid or unenforceable, then the entire Assignment shall be construed as if not containing the particular invalid or unenforceable provision or provisions, and the rights and obligations of Assignee and Assignor(s) shall be construed and enforced accordingly. Assignee's failure to exercise any option made available as a result hereof, shall not be construed as a waiver of such provisions, rights, or options, or affect the validity of this Assignment. Assignor covenants and agrees that it will not take any actions in violation of this Assignment.

Subsequent assignment from any of the assignors to the assignee purporting to convey the subject matter specified herein for a particular country, patent office, or jurisdiction shall not invalidate any provision of this assignment and any such subsequent assignment shall act as a further confirmation of the assignment herein.

Date 2021-03-08

Signature on behalf of
Assignee


Roger Bou Faical
Director - Patent Unit Kista RAN 1

ASSIGNMENT

Title: Resource balance between msgA preamble and msgA PUSCH in 2-step RACH

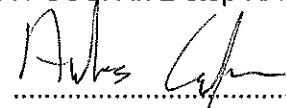
Date... 23/11/2020 Signature of Assignor
Krishna Chitti

Date... 23.11.2020 Witnessed by
Name: Rolf Schuh
Address: Hildur Sandbergs Gata 6
22762 Lund
Sweden

Date... 23.11.2020 Witnessed by
Name: Majid Gerami
Address: Collegie Vigen 48
22073 Lund
Sweden

ASSIGNMENT

Title: Resource balance between msgA preamble and msgA PUSCH in 2-step RACH

Date 2021-02-25 Signature of Assignor
Andreas CedergrenDate 2021-02-25 Witnessed by

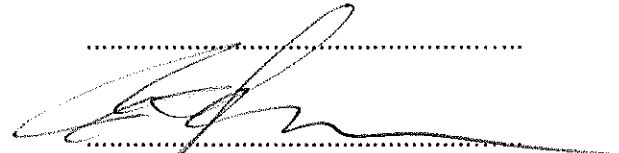
Name:

Address:


ULRIKA CEDERGREN
FLATMEJSELVÄGEN 11
S-57293 OSKARSHAMNDate 2021-02-25 Witnessed by

Name:

Address:


PETER CEDERGREN
FLATMEJSELVÄGEN 11
S-57293 OSKARSHAMN

ASSIGNMENT

Title: Resource balance between msgA preamble and msgA PUSCH in 2-step RACH

Date Nov 18, 2020

Signature of Assignor

R. Mark Harrison
Robert HarrisonDate 11/18/2020

Witnessed by

Name:

Address:

Patty Harrison
Patty Harrison3208 Walker Place
Grapevine, Texas, 76051Date 11/18/2020

Witnessed by

Name:

Address:

Katherine Harrison
KATHERINE HARRISON1985 Colorado Blvd
Denton, Texas, 76205

ASSIGNMENT

Title: Resource balance between msgA preamble and msgA PUSCH in 2-step RACH

Date.....2020-12-3..... Signature of Assignor.....Zipeng Lin.....
Zipeng Lin

Date.....2020-12-3..... Witnessed by.....Jundien Zhao.....
Name:.....Jundien Zhao.....
Address:.....No.32, Chitiam Road, Jiangning Zone,.....
Nanjing, China.....

Date.....2020-12-3..... Witnessed by.....Chen Hao.....
Name:.....Chen Hao.....
Address:.....No.32, Chitiam Road, Jiangning Zone,.....
Nanjing, China.....

ASSIGNMENT

Title: Resource balance between msgA preamble and msgA PUSCH in 2-step RACH

Date: 16th Nov 2020 Signature of Assignor: 
Jonas Sedin

Date: 16th Nov 2020 Witnessed by: 
Name: Muhammad Kazmi
Address: Skrivargatan 7
17464 Sundbyberg
Sweden

Date: 16th Nov 2020 Witnessed by: 
Name: Huzefa Shalini Razaqi
Address: Erasmuspavement 18
16959 Solna
Sweden

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)	Attorney Docket Number	P079577WO01
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Title of Invention	Resource balance between msgA preamble and msgA PUSCH in 2-step RACH						
As the below named inventor, I hereby declare that:							
This declaration is directed to: ☐ The attached application, or ☒ United States application or PCT international application number PCT/SE2020/051064, filed on November 05, 2020							
The above-identified application was made or authorized to be made by me.							
I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.							
I have reviewed and understand the contents of the above identified application, including the claims, as amended by any amendment specifically referred to above.							
I am aware of the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.							
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.							
<table border="0" style="width: 100%;"> <tr> <td colspan="2" data-bbox="159 1485 1394 1534"> LEGAL NAME OF INVENTOR </td> </tr> <tr> <td data-bbox="159 1543 877 1601"> Inventor: Krishna Chitti </td> <td data-bbox="884 1543 1394 1601"> Date (Optional): 23/11/2020 </td> </tr> <tr> <td data-bbox="159 1610 877 1729"> Signature:  </td> <td data-bbox="884 1610 1394 1729"></td> </tr> </table>		LEGAL NAME OF INVENTOR		Inventor: Krishna Chitti	Date (Optional): 23/11/2020	Signature: 	
LEGAL NAME OF INVENTOR							
Inventor: Krishna Chitti	Date (Optional): 23/11/2020						
Signature: 							

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)	Attorney Docket Number	P079577WO01
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Title of Invention	Resource balance between msgA preamble and msgA PUSCH in 2-step RACH
As the below named inventor, I hereby declare that: This declaration is directed to: ☐ The attached application, or ☒ United States application or PCT international application number PCT/SE2020/051064, filed on November 05, 2020 The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. I have reviewed and understand the contents of the above identified application, including the claims, as amended by any amendment specifically referred to above. I am aware of the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.	
LEGAL NAME OF INVENTOR Inventor: Andreas Cedergren Date (Optional): Signature: 	

Replaces PTO/AIA/01 (06-12)

**DECLARATION (37 CFR 1.63) FOR UTILITY OR
DESIGN APPLICATION USING AN
APPLICATION DATA SHEET (37 CFR 1.76)**

Attorney Docket
Number

P079577WO01

**Title of
Invention**

Resource balance between msgA preamble and msgA PUSCH in 2-step
RACH Resource balance between msgA preamble and msgA PUSCH in 2-
step RACH

As the below named inventor, I hereby declare that:

This declaration
is directed to:

- ☐ The attached application, or
- ☒ United States application or PCT international
application number PCT/SE2020/051064, filed
on November 05, 2020

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

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in the application.

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including the claims, as amended by any amendment specifically referred to above.

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defined in 37 CFR 1.56, including for continuation-in-part applications, material
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the national or PCT international filing date of the continuation-in-part application.

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

LEGAL NAME OF INVENTOR

Inventor: Robert Harrison

Date (Optional):

Signature:

R. Mark Harris

**DECLARATION (37 CFR 1.63) FOR UTILITY OR
DESIGN APPLICATION USING AN
APPLICATION DATA SHEET (37 CFR 1.76)**

Attorney Docket
Number

P079577WO01

Title of Invention	Resource balance between msgA preamble and msgA PUSCH in 2-step RACH
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LEGAL NAME OF INVENTOR

Inventor: Zhipeng Lin

Date (Optional):

Signature: *Zhipeng Lin*

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)	Attorney Docket Number	P079577WO01
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Title of Invention	Resource balance between msgA preamble and msgA PUSCH in 2-step RACH
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LEGAL NAME OF INVENTOR

Inventor: Jonas Sedin

Date (Optional): 16th Nov 2020

Signature: 

ASSIGNMENT

This Assignment is made by:

Krishna Chitti

**Neversvägen 41, Lgh 1303,
SE- 22479 LUND
Sweden**

Andreas Cedergren

**Bryggvägen 1A
SE-237 36 BJÄRRED
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211100 NANJING Jiangsu
China**

Jonas Sedin

**Johannesbergsplan 4
SE-191 38 SOLLENTUNA
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(hereinafter referred to as "Assignor(s)") in favor, and for the benefit and behoof of, Telefonaktiebolaget L M Ericsson (publ), a corporation duly organized under and pursuant to the laws of Sweden and having its principal place of business at SE-164 83 Stockholm, Sweden (hereinafter referred to as "Assignee").

For good, sufficient and adequate consideration, the receipt of which is hereby acknowledged, the Assignor(s) have, as of the Effective Date, sold, assigned, transferred, and set over, and by these presents, and to the extent any transferable or assignable rights still remain with the inventor, do hereby sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns the entire right, title, and interest in and to the following inventions, application(s) for Letters Patent, and any and all Letters Patent or Patents in all countries and pursuant to all multilateral treaty organizations, including Sweden, the United States of America, the Patent Cooperation Treaty and European Patent Convention, that may be granted therefor and thereon, and in and to any and all divisions, continuations, continuations-in-part, conversions and utility models of said application(s), and reissues and extensions of said Letters Patent or Patents, the same to be held and enjoyed by the Assignee, for its use and behoof and the use and the behoof of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent, Patents and Utility Models may be granted as fully and entirely as the same would have been held and enjoyed by the Assignor(s) had this sale and assignment not been made:

ASSIGNMENT

METHODS FOR BALANCING RESOURCES UTILIZED IN RANDOM-ACCESS PROCEDURES

including, but not limited to, the application(s) for Letters Patent and Utility Model filed in:

Country	Application No.	File Date
US	62/931916	November 07, 2019

The Effective date is the earliest date of the above listed Filing Date(s).

Assignor(s) hereby authorize and request Assignee's Attorneys to insert the serial number and filing date of said application(s) for Letter Patent or Utility Model, when known. The assignment of the above mentioned rights includes a transfer of the whole right to use a priority (including priority according to any convention, multilateral agreement, bilateral agreement and national law) of the above mentioned application(s) for Letter Patent and Utility Model in all countries and multilateral treaty organizations wherein no residual rights shall remain with the Assignor(s). Assignor(s) hereby request that said Letters Patent, Patent or Utility Model be issued to Assignee as the Assignee of said inventions, the Letters Patent, Patent or Utility Model to be issued for the sole use and behoof of the Assignee, its successors, legal representatives, and assigns. Assignee alone hereinafter has the entire disposal of the invention and possesses entire ownership to any domestic and foreign patents or utility models granted thereafter. The rights granted hereunder shall include all rights to institute legal actions, obtain remedies and recover and retain damages in respect to said Letters Patent, Patent or Utility Model.

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ASSIGNMENT

oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent or Utility Model for said inventions, without charge to Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns. If any of the Assignor(s) is prevented by any obstacles from signing said documents in person, this Assignment shall be valid as a Power of Attorney for the Assignee to sign these documents on behalf of any such Assignor(s) or, in the event of the death of the latter, the estate thereof.

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United States

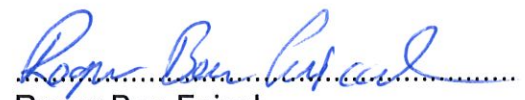
without regard to the conflicts of laws provisions thereof. Any dispute, controversy or claim arising under, out of or relating to this Assignment and any subsequent amendments of this Assignment, including, without limitation, its formation, validity, binding effect, interpretation, performance, breach or termination, as well as non-contractual claims, shall be referred to and finally determined by arbitration in accordance with the WIPO Arbitration Rules. The arbitral tribunal shall consist of a sole arbitrator. The place of arbitration shall be in the country of the inventor's residence. The language to be used in the arbitral proceedings shall be English.

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Subsequent assignment from any of the assignors to the assignee purporting to convey the subject matter specified herein for a particular country, patent office, or jurisdiction shall not invalidate any provision of this assignment and any such subsequent assignment shall act as a further confirmation of the assignment herein.

Date 2020-10-19

Signature on behalf of
Assignee


Roger Bou Faical
Director - Patent Unit Kista RAN 1

ASSIGNMENT

Title: METHODS FOR BALANCING RESOURCES UTILIZED IN RANDOM-ACCESS PROCEDURES

Date.....22/09/2020..... Signature of Assignor


Krishna Chitti

Date.....22/09/2020..... Witnessed by

Name:

MURIS SARAJLIĆ

Address:

MELLANGATAN 1,

21218 HALMÖ,

SWEDEN

Date.....22/09/2020..... Witnessed by

Name:


JOÃO VIEIRA

Address:

BANHÄSTAR GÅRDEN 26

24563 HJÄRUP

SWEDEN

ASSIGNMENT

Title: METHODS FOR BALANCING RESOURCES UTILIZED IN RANDOM-ACCESS PROCEDURES

Date 2020-10-06 Signature of Assignor 
Andreas Cedergren

Date 2020-10-06 Witnessed by Andreas L Cedergren
Name: Andreas L Cedergren
Address: Bryggvägen 1A
237 36 Bjärred
Sweden

Date..... Witnessed by Cannot be provided
Name: due to the COVID-19
Address: sanitary emergency
.....
.....

ASSIGNMENT

Title: METHODS FOR BALANCING RESOURCES UTILIZED IN RANDOM-ACCESS PROCEDURES

Date Oct 11, 2020 Signature of Assignor R. Mark Harrison
Robert Mark Harrison

Date 10/11/2020 Witnessed by Katherine Harrison
Name: KATHERINE HARRISON
Address: 1985 Colorado Blvd
Denton, Texas, 76205

Date 10/11/2020 Witnessed by Patty Harrison
Name: Patty Harrison
Address: 3208 Walker Place
Grapevine, Texas, 76051

ASSIGNMENT

Title: METHODS FOR BALANCING RESOURCES UTILIZED IN RANDOM-ACCESS PROCEDURES

Date..... 2020-10-12

Signature of Assignor

..... Zhipeng Lin
Zhipeng LIN

Date..... 2020-10-12

Witnessed by

..... Junchen Zhao

Name:

..... Junchen Zhao

Address:

..... No.32, Chitian Road, Jiangning Zone,
Nanjing, China

Date..... 2020-10-12

Witnessed by

..... Chu Hao

Name:

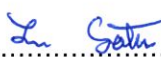
..... Chu Hao

Address:

..... No.32, Chitian Road, Jiangning Zone,
Nanjing, China

ASSIGNMENT

Title: METHODS FOR BALANCING RESOURCES UTILIZED IN RANDOM-ACCESS PROCEDURES

Date... 23rd Sep 2020 Signature of Assignor 
Jonas Sedin

Date... Sep 23, 2020 Witnessed by 

Name: Isliak Hossain

Address: Kista Alléväg 37

16455 Stockholm

Sweden.

Date... 2020-09-23 Witnessed by 

Name: Henrik Rydén

Address: ÖSTERLÄNGEN 16A

16952 Solna

Sweden