

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)	Attorney Docket Number	P71622 WO1
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Title of Invention	SYSTEMS AND METHODS FOR DETERMINING TRANSMITTER AND RECEIVER CONFIGURATIONS FOR A WIRELESS DEVICE	
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/SE2018/050302, filed on March 23, 2018 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:	Mattias Frenne	Date (Optional):
Signature:		

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

P71622 WO1

**Title of
Invention****SYSTEMS AND METHODS FOR DETERMINING TRANSMITTER AND
RECEIVER CONFIGURATIONS FOR A WIRELESS DEVICE**

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/SE2018/050302, filed on March
23, 2018

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: Stephen Grant

Date (Optional):

Signature:



2018-03-23



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

APRIL 23, 2018

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504878250

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT RECORDATION BRANCH OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE ASSIGNMENT RECORDATION BRANCH AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT RECORDATION BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 04/20/2018

REEL/FRAME: 045596/0310
NUMBER OF PAGES: 6

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: 017997.1582

ASSIGNOR:
FRENNE, MATTIAS

DOC DATE: 03/26/2018

ASSIGNOR:
GRANT, STEPHEN

DOC DATE: 03/23/2018

ASSIGNEE:
TELEFONAKTIEBOLAGET LM ERICSSON
(PUBL)
SE-164 83
STOCKHOLM, SWEDEN

APPLICATION NUMBER: 15769470

FILING DATE:

PATENT NUMBER:

ISSUE DATE:

TITLE: SYSTEMS AND METHODS FOR DETERMINING TRANSMITTER AND RECEIVER CONFIGURATIONS FOR A WIRELESS DEVICE

ASSIGNMENT RECORDATION BRANCH
PUBLIC RECORDS DIVISION

ASSIGNMENT

This Assignment is made by:

FRENNE, Mattias

**Arkeologvägen 20
SE-754 43 UPPSALA
Sweden**

GRANT, Stephen

**848 Sylvaner Drive
94566 PLEASANTON, CA
United States**

(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:

SYSTEMS AND METHODS FOR DETERMINING TRANSMITTER AND RECEIVER CONFIGURATIONS FOR A WIRELESS DEVICE

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

Country Code	Priority Application(s)	Filing Date(s)
WO	PCT/SE2018/050302	2018-03-23
		- -

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)

ASSIGNMENT

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 Utility Model, 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 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

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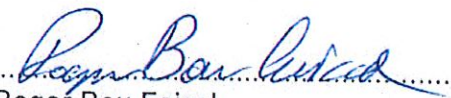
be referred to and finally determined by arbitration in accordance with the WIPO Arbitration Rules. The arbitral tribunal shall consist of a sole arbitrator. The place of arbitration shall be in the country of the inventor's residence. The language to be used in the arbitral proceedings shall be English.

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 2018-01-12

Signature on behalf of
Assignee


Roger Bou Faical
Director - Patent Unit Kista RAN 1

ASSIGNMENT

Title: SYSTEMS AND METHODS FOR DETERMINING TRANSMITTER AND RECEIVER CONFIGURATIONS FOR A WIRELESS DEVICE

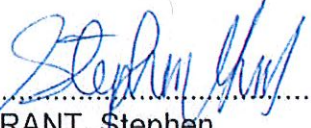
Date... 2018-03-26 Signature of Assignor Mattias Frenne
FRENNE, Mattias

Date... 2018-03-26 Witnessed by Lars Lindbom
Name: LARS LINDBOM
Address: FÖGDEGATAN 7
65462 KARLSTAD
SWEDEN

Date... 2018-03-26 Witnessed by Per Ervström
Name: PER ERVSTRÖM
Address: ANDERS REIMERS V. 4
117 50 STOCKHOLM
SWEDEN

ASSIGNMENT

Title: SYSTEMS AND METHODS FOR DETERMINING TRANSMITTER AND RECEIVER CONFIGURATIONS FOR A WIRELESS DEVICE

Date 3/23/18 Signature of Assignor 
GRANT, Stephen

Date 3/23/18 Witnessed by 

Name: Havish Koorapaty

Address: 13425 Kodiak Place
Saratoga, CA 95070

USA

Date 3/23/18 Witnessed by 

Name: Talha Khan

Address: 680 Epic Way Apt 247
San Jose, CA 95134

USA



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

APRIL 23, 2018

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RECORDATION DATE: 04/20/2018

REEL/FRAME: 045596/0484
NUMBER OF PAGES: 6

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: PROV. 017997.1582

ASSIGNOR:
FRENNE, MATTIAS

DOC DATE: 12/07/2017

ASSIGNOR:
GRANT, STEPHEN

DOC DATE: 12/19/2017

ASSIGNEE:
TELEFONAKTIEBOLAGET LM ERICSSON
(PUBL)
SE-164 83
STOCKHOLM, SWEDEN

APPLICATION NUMBER: 62476657

FILING DATE: 03/24/2017

PATENT NUMBER:

ISSUE DATE:

TITLE: SYSTEMS AND METHODS FOR DETERMINING TRANSMITTER AND RECEIVER CONFIGURATIONS FOR A WIRELESS DEVICE

ASSIGNMENT RECORDATION BRANCH
PUBLIC RECORDS DIVISION

ASSIGNMENT

This Assignment is made by:

FRENNE, Mattias

**Arkeologvägen 20
SE-754 43 UPPSALA
Sweden**

GRANT, Stephen

**848 Sylvaner Drive
CA 94566 PLEASANTON, CA
United States**

(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:

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Country Code	Priority Application(s)	Filing Date(s)
US	62/476657	2017-03-24
		- -
		- -

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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)

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United States

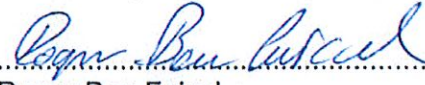
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Date 2018-01-02 Signature on behalf of 
Assignee Roger Bou Faical
Director - Patent Unit Kista RAN 1

ASSIGNMENT

Title: SYSTEMS AND METHODS FOR DETERMINING TRANSMITTER AND RECEIVER CONFIGURATIONS FOR A WIRELESS DEVICE

Date.....2017-12-07..... Signature of Assignor

Mattias K
FRENNE, Mattias

Date.....2017-12-07..... Witnessed by

Name:

Address:

Henrik Enbuske
Norrbackag. 4
173 41 Stockholm
Sweden

Date.....2017-12-07..... Witnessed by

Name:

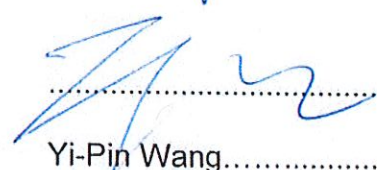
Address:

T. Chapman
Thomas Chapman
Kristinellundsv. 34
171 50 Solna
Sweden

ASSIGNMENT

Title: SYSTEMS AND METHODS FOR DETERMINING TRANSMITTER AND RECEIVER CONFIGURATIONS FOR A WIRELESS DEVICE

Date 2017-12-19 Signature of Assignor 
GRANT, Stephen

Date 2017-12-19 Witnessed by 
Name: Yi-Pin Wang.....
Address: 1357 Grosventres Ct.....
Fremont, CA 94539.....
USA.....

Date 2017-12-19 Witnessed by 
Name: Dennis Hui.....
Address: 1019 Havre Court.....
Sunnyvale, CA 94087.....
USA.....