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(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

ASSIGNMENT

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:

Industrial Automation with 5G and Beyond

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

Country Code	Priority Application(s)	Filing Date(s)
US	16/274800	2019-02-13
		- -
		- -

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.

ASSIGNMENT

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 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.

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 2020-02-06Signature on behalf of
Assignee
.....
Nabil Ayoub

Patent Unit Director

ASSIGNMENT

Title: Industrial Automation with 5G and Beyond

Date... 2019-02-20

Signature of Assignor


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Date... 2019-02-20

Witnessed by



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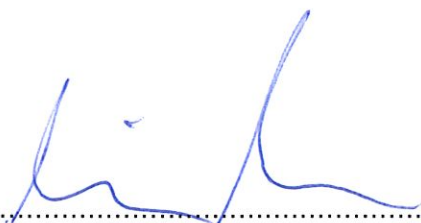
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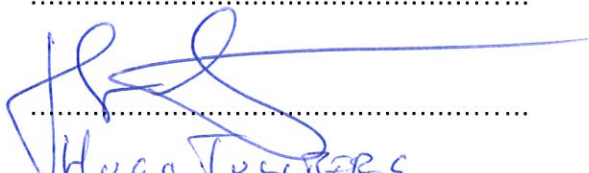
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Title: Industrial Automation with 5G and Beyond

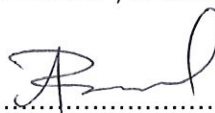
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Date.....2019-02-28

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Date.....25/2-2019..... Witnessed by

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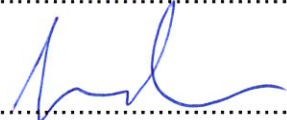
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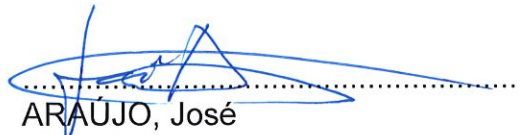
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Date 2019-04-16

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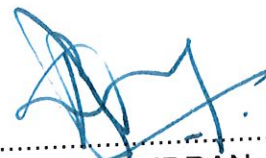
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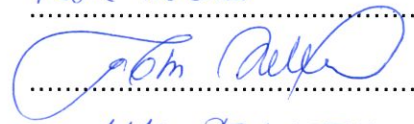
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Title: Industrial Automation with 5G and Beyond

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Date 15.05.19 Witnessed by



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Title: Industrial Automation with 5G and Beyond

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Title: Industrial Automation with 5G and Beyond

Date 18/2/2019

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Date 18/2/2019

Witnessed by



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ASSIGNMENT

Title: Industrial Automation with 5G and Beyond

Date... 11/12 - 2019

Signature of Assignor

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NYGREN, Johannes

Date... 11/12 - 2019

Witnessed by

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Title: Industrial Automation with 5G and Beyond

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Title: Industrial Automation with 5G and Beyond

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PALAIOS, Alexandros

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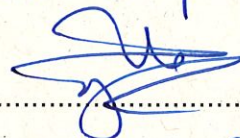
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Maren Abdel Latif

Address:

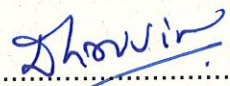
Vaalser Str. 4852064 AachenGermany

ASSIGNMENT

Title: Industrial Automation with 5G and Beyond

Date 18.2.2019

Signature of Assignor


PATEL, DhruvinDate 18.02.2019

Witnessed by

Name:

Address:


Mazen Abdel Latif
Vaalsen Str. 48
52064 Aachen
GermanyDate 18.2.2019

Witnessed by

Name:

Address:


Maciej Muchleisen
Lichtenbuscher Str. 325
4731 Eynatten
Belgium

ASSIGNMENT

Title: Industrial Automation with 5G and Beyond

Date... 2019-05-13

Signature of Assignor

PERSSON, Joakim

Date... 2019-05-13

Witnessed by

Name:

Address:

Henrik Sjöland

Soprangränden 7

224 68 Lund

Sweden

Date... 15/5 - 2019

Witnessed by

Name:

Address:

IAN KUNLIGEN

VINTERGATAN 7A

22354 LUND

SWEDEN

ASSIGNMENT

Title: Industrial Automation with 5G and Beyond

Date 2019-02-15

Signature of Assignor


.....
PERSSON, PerDate 2019-02-15

Witnessed by


.....

Name:

IAN KUMLIEN
.....

Address:

VINTERGATAN 7A
.....22357 LUND
.....SWEDEN
.....Date 2019-02-15

Witnessed by


.....

Name:

Magnus Grönlund
.....

Address:

Mälarevägen 2
.....24535 Staffanstorps
.....Sweden
.....

ASSIGNMENT

Title: Industrial Automation with 5G and Beyond

Date.....2019/02/15..... Signature of Assignor



PRADAS, Jose Luis

Date.....2019/02/15..... Witnessed by



Name:

GUNNAR MILDH

Address:

KOLTRASTVÄGEN 28

19255 SOLLENTUNA

SWEDEN

Date.....2019/02/15..... Witnessed by



Name:

Patrik Rugeland

Address:

Vingårdsgatan 5

117 58 STOCKHOLM

SWEDEN

ASSIGNMENT

Title: Industrial Automation with 5G and Beyond

Date...2019/02/14..... Signature of Assignor.....
 RÁCZ, Sándor

Date...2019/02/14..... Witnessed by.....
 Name:.....
 Address:.....
 114 BUDAPEST
 Bozai 4.34/A

Date...2019/02/14..... Witnessed by.....
 Name:.....
 Address:.....
 MALOMSKY SCARLOS
 2000 SENTENDRE
 RECHERTEUR 23.

ASSIGNMENT

Title: Industrial Automation with 5G and Beyond

Date 2019/04/26 Signature of Assignor



RAMACHANDRA, Pradeepa

Date 2019/04/26 Witnessed by



Name:

Eva Johannesson

Address:

Landeryd Sörholmen 2
SE-585 93 Linköping, Sweden
Ph +46 10 716 39 63

Date 2019/04/26 Witnessed by



Name:

Maria Strängberg

Address:

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SE-587 23 Linköping, Sweden
Ph +46 10 714 86 23

ASSIGNMENT

Title: Industrial Automation with 5G and Beyond

Date.....2019/02/14..... Signature of Assignor

Norbert Reid
REIDER, Norbert

Date.....2019/02/14..... Witnessed by

Name:

Address:

Talk Hilda
John Miller
1114 Bridgeport
Bozai U. 34/A

Date.....2019/02/14..... Witnessed by

Name:

Address:

Malumsky Stables
Malumsky
200 SENTENDRE
RECHER, T&R 23

ASSIGNMENT

Title: Industrial Automation with 5G and Beyond

Date: 19TH FEB 2019

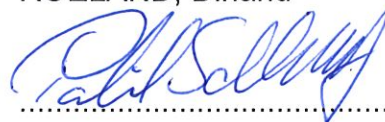
Signature of Assignor



ROELAND, Dinand

Date: 19th Feb 2019

Witnessed by



Name:

PATRIK SELLSTEDT

Address:

Skogvaktarestigen 11

192 51 Sollentuna

SWEDEN

Date: 19th Feb. 2019

Witnessed by



Name:

SIMONE FERLIN

Address:

JOMAN ENBERGS VÄG 36

171 61 SOLNA

SWEDEN

ASSIGNMENT

Title: Industrial Automation with 5G and Beyond

Date 28-05-2019

Signature of Assignor


RUFFINI, StefanoDate 28-05-2019

Witnessed by

Name:

Address:


ALBERTO BIANCHI
VIA MORUZZI 1
PISA - ITALYDate 28-05-2019

Witnessed by

Name:

Address:


FRANCESCO TESTA
VIA MORUZZI 1
PISA - ITALY

ASSIGNMENT

Title: Industrial Automation with 5G and Beyond

Date... 2019-04-20

Signature of Assignor


SACHS, Joachim

Date... 2019-04-26

Witnessed by

Name:

Address:

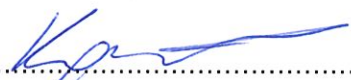

ZHAO WANGAnders Lundströms Gata
16973, Solna
Sweden

Date... 2019-04-26

Witnessed by

Name:

Address:


Eleftherios Korpitis
Gårlegeten 6
11330 Stockholm
SWEDEN

ASSIGNMENT

Title: Industrial Automation with 5G and Beyond

Date: 2019-02-15

Signature of Assignor

Sara Sandberg
SANDBERG, Sara

Date: 2019-02-15

Witnessed by

Mårten Ericson

Name:

Mårten Ericson

Address:

Kompaniv. 25

97 444 Luleå

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Date: 2019-02-15

Witnessed by

Kristofer Sandlund

Name:

KRISTOFER SANDBLUND

Address:

LINGÅNSTIGEN 29

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SWEDEN

ASSIGNMENT

Title: Industrial Automation with 5G and Beyond

Date.....2019-02-15.....

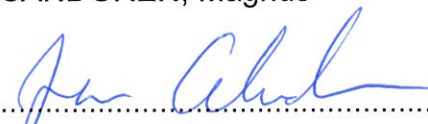
Signature of Assignor



SANDGREN, Magnus

Date.....2019-02-15.....

Witnessed by



Name:

JAN CEANDER

Address:

TESSINS VÄG 4A

217 58 MALMÖ

SWEDEN

Date.....2019-02-15.....

Witnessed by



Name:

Torsten Carlsson

Address:

Viborgsölingan 46

22472 Lund

SWEDEN

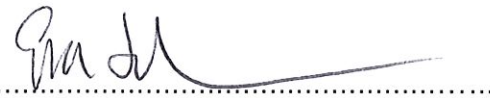
ASSIGNMENT

Title: Industrial Automation with 5G and Beyond

Date: 2018-04-26 Signature of Assignor


 SCHLIWA-BERTLING, Paul

Date: 2018-04-26 Witnessed by



Name:

Eva Johannesson

Address:

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Date: 2018-04-26 Witnessed by



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ASSIGNMENT

Title: Industrial Automation with 5G and Beyond

Date 2019-02-19 Signature of Assignor
.....
SHAPIN, AlexeyDate 2019-02-19 Witnessed by
.....

Name:

Hans Hannu
.....

Address:

Battenrögen 12
.....976 31 Luleå
.....SWEDEN
.....Date 2019-02-19 Witnessed by
.....
Ylva Timmer

Name:

Gnejsrotigen 37
.....

Address:

977 53 Luleå
.....Sweden
.....

ASSIGNMENT

Title: Industrial Automation with 5G and Beyond

Date 2019-02-18

Signature of Assignor

Nianshan Shi
SHI, Nianshan

Date 2019-02-18

Witnessed by

Name:

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Panagiotis Saltsidis
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Date 2019-02-18

Witnessed by

Name:

Address:

Johan Bergman
Kungsholmsgatan 9
112 27 Stockholm
Sweden

ASSIGNMENT

Title: Industrial Automation with 5G and Beyond

Date.....2019-04-30..... Signature of Assignor

SKARIN, Per

Date.....2019-04-30..... Witnessed by

Name:

Address:

Johan Erik

ÄPPLERÅGEN 6

223 55 Lunn

SWEDEN

Date.....2019-04-30..... Witnessed by

Name:

Address:

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ASSIGNMENT

Title: Industrial Automation with 5G and Beyond

Date 2019-4-25

Signature of Assignor


SMEETS, BernardDate 2019-04-25

Witnessed by



Name:

MIKAEL JOHANSSON

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237 91 BYÅRRE

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Date 2019-04-25

Witnessed by



Name:

PATRIK EKDAHL

Address:

JOHAN ÅKERMANSS V 5

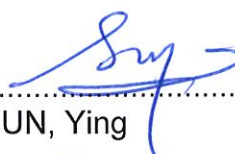
247 53 DALBY

SWEDEN

ASSIGNMENT

Title: Industrial Automation with 5G and Beyond

Date: 2019/4/26 Signature of Assignor


SUN, Ying

Date: 2019-04-26 Witnessed by

Name:

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Date: 2019-04-26 Witnessed by

Name:

Address:


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SWEDEN

ASSIGNMENT

Title: Industrial Automation with 5G and Beyond

Date 2019-04-30

Signature of Assignor



SUNDMAN, Dennis

Date 2019-04-30

Witnessed by



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Sweden

Date 2019-04-30

Witnessed by



Name:

Pontus Arvidson

Address:

Rudbecks väg 117

192 51 Sollentuna

SWEDEN

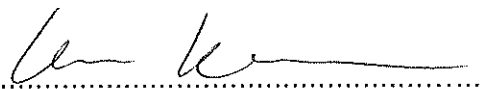
ASSIGNMENT

Title: Industrial Automation with 5G and Beyond

Date 20190425 Signature of Assignor


SVENSSON, Fredrik

Date 20190425 Witnessed by



Name:

IAN KUMLIEN

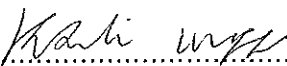
Address:

VINBERGATAN 7A

22457 LUND

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Date 2019-04-25 Witnessed by



Name:

Katalin Wrange

Address:

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ASSIGNMENT

Title: Industrial Automation with 5G and Beyond

Date 2019-10-04 Signature of AssignorMalgorzata Svensson
SVENSSON, MalgorzataDate 2019-10-04 Witnessed by

Name:

Address:

Jan Friman

FRIMAN

Öljens 317371 94 LjulebyDate 2019-10-04 Witnessed by

Name:

Address:

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GUSTAFSSON

Skovkulla backe 237333 Vättnaby

ASSIGNMENT

Title: Industrial Automation with 5G and Beyond

Date.....2019/02/14..... Signature of Assignor

Szabo Geza
SZABO, Geza

Date.....2019/02/14..... Witnessed by

Name:

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Tom Melen
Tom Melen
114 BUDAPEST
Bocskai u. 34/A

Date.....2019/02/14..... Witnessed by

Name:

Address:

MALOMSOKY SZABOLCS
Mary
2000 SIEMENDRE
SZECSENYI TER 23.

ASSIGNMENT

Title: Industrial Automation with 5G and Beyond

Date 14. Feb 2019

Signature of Assignor


TONUTTI, WolfgangDate 14.02.2019

Witnessed by

Kurt Essigmann

Name:

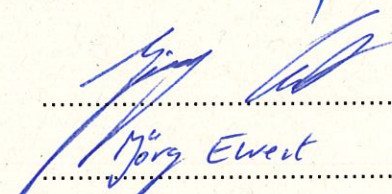
Address:

An der Keingass 8
52072 Aachen
GermanyDate 14.2.2019

Witnessed by

Name:

Address:


Max Ewert
Max-Pechstein-Str. 13
52076 Aachen
Germany

ASSIGNMENT

Title: Industrial Automation with 5G and Beyond

Date 2019-02-15

Signature of Assignor

Varga Balázs
VARGA, BalázsDate 2019-02-15

Witnessed by

Name:

Address:

Tóth Miklós
John Pallef
1114 BUDAPEST
Dorottya út 34/A.Date 2019-02-15

Witnessed by

Name:

Address:

MALOMSKY SZABOLCS
Mary
2000 SZENTENDRE
SZECHENYI TÉR 23.

ASSIGNMENT

Title: Industrial Automation with 5G and Beyond

Date April 25 2019

Signature of Assignor



WAHLSTRÖM, Mårten

Date April 25 2019

Witnessed by



Name:

Jerry Rutkowski

Address:

Vägsättravägen 24
14140 HuddingeDate 2019-04-25

Witnessed by



Name:

Anders Högström

Address:

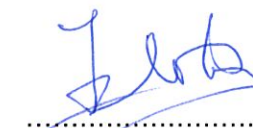
Gustav III boulevard 87
16974 Solna

ASSIGNMENT

Title: Industrial Automation with 5G and Beyond

Date 2019-Feb-14

Signature of Assignor


WANG, KunDate 2019-Feb-14

Witnessed by

Name:

Address:


ZHANG FU
Lugnets Allé 67
12067, Stockholm
SwedenDate 2019-Feb-14

Witnessed by

Name:

Address:

Andrzej Zahemsky
ANDRZEJ ZAHEMSZKY
KRUTHORNSVÄGEN 15A
192 32 SOLLENTUNA
SWEDEN

ASSIGNMENT

Title: Industrial Automation with 5G and Beyond

Date.....2019-04-29..... Signature of Assignor.....
WANG, Yi-Pin Eric

Date.....2019-04-29..... Witnessed by.....

Name: Xingqin Lin

Address: 2778 Sierra Village Ct

San Jose, CA 95132

USA

Date.....04/29/2019..... Witnessed by.....

Name: Jung-Fu Cheng

Address: 1806 Mandan Place

Fremont, CA 94539

USA

ASSIGNMENT

Title: Industrial Automation with 5G and Beyond

Date.....2019-02-14..... Signature of Assignor

邵振华
ZOU, Zhenhua

Date.....2019-02-14..... Witnessed by

蒋佳霓

Name:

Jiani Jiang

Address:

Emmylundsträgen 3/1413

Solna 171 72

Sweden

Date.....2019-02-14..... Witnessed by

雷宛霞

Name:

Wan Lu Lei

Address:

Näckrosvägen 17 (9h140)

169 37 Solna

Sweden

ASSIGNMENT AGREEMENT

This Assignment is made by:

ASHRAF, Muhammad Ikram	Kotikyläntie 7C, 60 02770 Espoo Finland
CHERNOGOROV, Fedor	Kolkekannaksentie 19B D45 02720 Espoo Finland
HILTUNEN, Kimmo	Renbackavägen 2B 32 FI-02750 ESBO Finland
LARMO, Anna	Nuotiotie 7 FI-02600 ESPOO Finland
SALMELA, Patrik	Sepet-torppa 5 D 02230 Espoo Finland
SINGH, Bikramjit	Anjankuja 3A 12 02230 Espoo Finland
YILMAZ, Osman Nuri Can	Puolarkuja 3 D 8 FI-02280 ESPOO Finland

(hereinafter referred to as "Assignor(s)") in favor, and for the benefit and behoof of, Oy L M Ericsson Ab, a corporation duly organized under and pursuant to the laws of Finland and having its principal place of business at Hirsalantie 11, 02420 Jorvas, Finland (hereinafter referred to as "Assignee").

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 any and all Letters Patent, Patents and Utility Model(s) in all countries and pursuant to all multilateral treaty organizations, including Finland, 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, Patents or Utility Model(s), 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:

Industrial Automation with 5G and Beyond

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

ASSIGNMENT AGREEMENT

Country Code	Priority Application(s)	Filing Date(s)
US	16/274800	2019-02-13
		- -
		- -

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

This Assignment shall be subject to the laws of Finland and Ericsson Inventor Awards System valid at the time of the Assignors submitted the Applicable Notification Form to the Assignee. The Assignor(s) acknowledge that they are aware of the content and provisions of the Ericsson Inventor Awards System.

Assignor(s) hereby authorize and request Assignee's Attorneys to insert the serial number and filing date of said application(s) for Letter Patents, 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, Patents 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, Patents 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, Patents 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(s).

The Assignor(s) hereby confirm that the remuneration to be paid to the Assignor(s) in accordance with the Ericsson Inventor Awards System, in addition to the salary of the Assignor(s) as such, constitute fair and reasonable compensation as defined in the Finnish Employee Inventions Act for the assignment an employee invention to the Assignee and that the Assignor(s) shall not have any other claims towards the Assignee. In connection with this the Assignor(s) and the Assignee have particularly taken into account the following factors: degree of readiness, scope of the invention and utilization of the invention. It has been taken into account that the invention may be used in or transferred to other Ericsson's group companies and there are also licensing possibilities.

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, Patents 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.

ASSIGNMENT AGREEMENT

Further, 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, Patents or Utility Models or any proceeding in connection with Letters Patent, Patents 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 of any application(s) for Letters Patent, Patents or Utility Model, or any reissue or extension of any Letters Patent, Patents or Utility Model 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, Patents 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:

Sweden

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.

ASSIGNMENT AGREEMENT

Date.....27.2.2019.....

Signature on behalf of
Assignee



Hannu Ahonen
Senior Group Legal Counsel

ASSIGNMENT AGREEMENT

Title: Industrial Automation with 5G and Beyond

Date 26.2.2019 Signature of Assignor



.....
Patrik Salmela

Date 26.2.2019 Witnessed by



Name:

.....
ANNETTE WESTERHOLM

Address:

.....
TORPANTE 4

.....
02400 KIRKKONUMMI

.....
FINLAND

Date 26.2.2019 Witnessed by



Name:

.....
Monika Weckman

Address:

.....
Varpoto 3 B 13

.....
02270 ESPOO

.....
FINLAND

ASSIGNMENT AGREEMENT

Title: Industrial Automation with 5G and Beyond

Date.....18.2.2019..... Signature of Assignor



Kimmo Hiltunen

Date.....18.2.2019..... Witnessed by



Name:

ANNETTE WESTERHOLM

Address:

TORPANTIE 4

02400 KIRKKONUMMI

FINLAND

Date.....18.2.2019..... Witnessed by



Name:

Monika Weckman

Address:

Vaivutka B B 13

02270 ESPOO

FINLAND

ASSIGNMENT AGREEMENT

Title: Industrial Automation with 5G and Beyond

Date..... 25.2.2019 Signature of Assignor
Osman Nuri Can Yilmaz

Date..... 25.2.2019 Witnessed by
Name: ANNETTE WESTERHOLM
Address: TORPANTIE 4
..... 02400 KIRKKONUMMI
..... FINLAND

Date..... 25.2.2019 Witnessed by
Name: Monika Weckman
Address: Varpukie 3 B 13
..... 02270 ESPOO
..... FINLAND

ASSIGNMENT AGREEMENT

Title: Industrial Automation with 5G and Beyond

Date.....18.02.2019..... Signature of Assignor.....
Muhammad Ikram Ashraf

Date.....18.2.2019..... Witnessed by.....
Name:.....ANNETTE WESTERHOLM.....
Address:.....TORPANTIEY.....
.....02400 KIRKKONUMMI.....
.....FINLAND.....

Date.....18.2.2019..... Witnessed by.....
Name:.....SARINNA CARLSSON.....
Address:.....OSMUSSTENKATKI 10B8.....
.....02480 KIRKKONUMMI.....
.....FINLAND.....

ASSIGNMENT AGREEMENT

Title: Industrial Automation with 5G and Beyond

Date.....15.02.2019..... Signature of Assignor..........
Fedor Chernogorov

Date.....15.2.2019..... Witnessed by..........
Name:.....BENITA HEINONEN.....
Address:.....LUMIKINKUJA 8.....
.....02400 KIRKKONUMMI.....
.....FINLAND.....

Date.....15.2.2019..... Witnessed by..........
Name:.....ANNETTE WESTERHOLM.....
Address:.....TORPANTIE 4.....
.....02400 KIRKKONUMMI.....
.....FINLAND.....

ASSIGNMENT AGREEMENT

Title: Industrial Automation with 5G and Beyond

Date 19/2/2019

Signature of Assignor



Bikramjit Singh

Date 19.2.2019

Witnessed by



Name:

ANNETTE WESTERHOLM

Address:

TORPANTIE 4

02400 KIRKKONUMMI

FINLAND

Date 19.2.2019

Witnessed by



Name:

SARIANNA CARLSON

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OSMUSSARINKARI 10B8

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FINLAND

ASSIGNMENT AGREEMENT

Title: Industrial Automation with 5G and Beyond

Date... 25.2.2019

Signature of Assignor



Anna Larmo

Date... 25.2.2019

Witnessed by



Name:

ANNETTE WESTERHOLM

Address:

TORPANTIE 7

02400 KIRKKONUMMI

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Date... 25.2.2019

Witnessed by



Name:

SANNIINA CARLSÉN

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FINLAND

LMF to LME Assignment

This Assignment is made by **Oy L M Ericsson Ab**, a corporation duly organized under and pursuant to the laws of Finland and having its principal place of business at Hirsalantie 11, 02420 Jorvas, Finland (hereinafter referred to as "Assignor") 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 S-164 83 Stockholm, Sweden (hereinafter referred to as "Assignee").

For good, sufficient and adequate consideration, the receipt of which is hereby acknowledged, the Assignor has 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 assignor 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, Finland, the United States of America, the Patent Cooperation Treaty and European 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 had this sale and assignment not been made:

Industrial Automation with 5G and Beyond

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

Country Code	Application Number(s)	Filing Date(s)
US	16/274800	2019-02-13

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

Assignor hereby authorizes and requests Assignee's Attorneys to insert the serial number and filing date of said application(s) for Letters 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. Assignor 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 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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The Assignor 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, Assignor 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 was the sole and lawful owner 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 has 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 hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns that the Assignor 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 or Utility Model 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 the Assignor 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.

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 Sweden, 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 Sweden. 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 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 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

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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.

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Signature of Assignee

Telefonaktiebolaget LM
Ericsson (publ)

Date.....2019-03-12.....Nabil Ayoub.....

Name: Nabil Ayoub
Title: Patent Unit Director

Signature of Assignor

Oy L M Ericsson Ab

Date.....5.3.2019.....Hannu Ahonen.....

Name: Hannu Ahonen
Title: Senior Group Legal
Counsel

Date.....5.3.2019.....Olli Sirkka.....

Name: Olli Sirkka
Title: President