

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

Assignment ID: PATI655651

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
GENERAL ELECTRIC COMPANY	06/30/2024
<b>RECEIVING PARTY DATA</b>	
<b>Company Name:</b>	GE Intellectual Property Licensing, LLC
<b>Street Address:</b>	c/o Corporation Service Company
<b>Internal Address:</b>	251 Little Falls Drive
<b>City:</b>	Wilmington
<b>State/Country:</b>	DELAWARE
<b>Postal Code:</b>	19808
<b>PROPERTY NUMBERS Total: 42</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	17479370
Application Number:	18762999
Application Number:	17406205
Application Number:	17406246
Application Number:	17132434
Application Number:	18457041
Application Number:	16281406
Application Number:	17131728
Application Number:	18400068
Application Number:	16880407
Application Number:	18471040
Application Number:	18579254
Application Number:	63221802
Application Number:	18579250
Application Number:	63222325
Application Number:	18579253
Application Number:	63222316
Application Number:	18722125
Application Number:	63291500

PATENT

Property Type	Number
Application Number:	18722109
Application Number:	63291501
Application Number:	18722791
Application Number:	63292228
Application Number:	17069702
Application Number:	18843805
Application Number:	63316808
Application Number:	63317069
Application Number:	18850484
Application Number:	63325736
Application Number:	63323241
Application Number:	63316816
Application Number:	18845601
Application Number:	63318896
Application Number:	63318431
Application Number:	63344711
Application Number:	18157243
Application Number:	63375205
Application Number:	63506031
Application Number:	63508357
Application Number:	16525807
Application Number:	18321545
Application Number:	18928780

#### CORRESPONDENCE DATA

**Fax Number:**

*Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.*

**Phone:** 2159635050

**Email:** alex.weidman@morganlewis.com,PHPatentCorrespondence@morganlewis.com

**Correspondent Name:** Alex Weidman

**Address Line 1:** 2222 Market Street

**Address Line 4:** Philadelphia, PENNSYLVANIA 19103

**ATTORNEY DOCKET NUMBER:** 128571-8001 thru 8024

**NAME OF SUBMITTER:** Alex Weidman

**SIGNATURE:** Alex Weidman

**DATE SIGNED:** 11/25/2024

**Total Attachments: 15**

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## INTELLECTUAL PROPERTY CONTRIBUTION, ASSIGNMENT AND ASSUMPTION AGREEMENT

This INTELLECTUAL PROPERTY CONTRIBUTION, ASSIGNMENT AND ASSUMPTION AGREEMENT (this “**Agreement**”) is made as of June 30, 2024 (the “Effective Date”), by and between General Electric Company, a New York corporation (the “**Assignor**”), and GE Intellectual Property Licensing, LLC, a Delaware limited liability company (the “**Assignee**”).

WHEREAS, effective as of the Effective Date, the parties desire that Assignor contribute, convey, assign and transfer to Assignee all of the right, title and interest of Assignor in and to the patents and patent applications set forth on Attachment A attached hereto, trademarks and trademark applications (together with all goodwill associated therewith and symbolized thereby in each case) set forth on Attachment B attached hereto and domain names set forth on Attachment C attached hereto (collectively, the “**Assigned IP**”); and

WHEREAS, Assignee wishes to acquire all of Assignor’s right, title and interest in and to the Assigned IP, and Assignor wishes to contribute, convey, assign and transfer to Assignee all of Assignor’s right, title and interest in and to the Assigned IP.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties, intending legally to be bound, hereby agree as follows:

1. Transfer of Assigned IP. Effective as of the Effective Date, Assignor hereby irrevocably contributes, conveys, assigns, and transfers to Assignee and its successors and assigns, and Assignee hereby unconditionally accepts all of Assignor’s right, title and interest in and to: (a) the Assigned IP (provided that, with respect to intent-to-use U.S. trademark applications, the transfer of such applications accompanies the transfer of that portion of the business to which such applications pertain); (b) all claims, causes of action and enforcement rights of any kind, and all rights to sue for past, present or future infringement of any of the Assigned IP and to collect and retain any and all damages, costs, profits, injunctive relief and other remedies for or relating to any such past, present or future infringement of the Assigned IP or any and all claims relating thereto; (c) all rights to collect royalties, license fees or other amounts with respect to the Assigned IP; and (d) all rights (but no obligation) to apply for, file, register, maintain, prosecute, extend, renew, enforce, license and otherwise exploit in any or all countries of the world patents, patent applications, certificates of invention, utility models, industrial design protection, design patent protection and other governmental grants or issuances of any kind related to any and all of the Assigned IP (including, without limitation, all reissues, reexaminations, extensions, continuations, continuations in part, continuing prosecution applications, substitutions, requests for continuing examinations, divisions, divisionals, counterparts and other applications, worldwide, based in whole or in part thereon) and any and all of the inventions, invention disclosures, designs and discoveries described or disclosed therein, in each case, without any requirement for Assignee to seek or obtain any consent or other approval from or otherwise inform Assignor.

2. Recordation and Further Actions. The Assignor hereby authorizes the Commissioner for Patents and the Commissioner for Trademarks in the United States Patent and Trademark Office and the officials of corresponding entities or agencies in any applicable jurisdictions to record and register this Agreement upon Assignee's request. Following the date hereof, upon Assignee's reasonable request and at Assignee's sole cost and expense, Assignor shall take such steps and actions, and provide such cooperation and assistance to the Assignee and its successors, assigns, and legal representatives, including the execution of and delivery of any affidavits, declarations, oaths, exhibits, assignments, power of attorney, or other documents, as may be necessary to effect, evidence, or perfect the assignment of the Assigned IP to the Assignee.

3. Entire Agreement; Amendments. This Agreement constitutes the entire agreement, and supersedes all prior written agreements, arrangements, communications and understandings and all prior and contemporaneous oral agreements, arrangements, communications and understandings among the parties with respect to the subject matter hereof and thereof. Any provision of this Agreement may be amended or waived, but only if the amendment or waiver is in writing and signed, in the case of an amendment, by each of the parties hereto, or, in the case of a waiver, by the party or parties asserted to have made such waiver.

4. Successors and Assigns. This Agreement shall be binding upon and inure solely to the benefit of each party hereto, and nothing in this Agreement, express or implied, is intended to or shall confer upon any person other than the parties and their respective successors and permitted assigns any legal or equitable right, benefit or remedy of any nature whatsoever under or by reason of this Agreement.

5. Governing Law and Venue. This Agreement and all disputes or controversies arising out of or relating to this Agreement or the transactions contemplated hereby shall be governed by, and construed and enforced in accordance with, the internal laws of the State of Delaware, without regard to the laws of any other jurisdiction that might be applied because of the conflicts of laws principles of the State of Delaware. Each of the parties irrevocably agrees that any action or dispute arising out of or relating to this Agreement brought by any party or its successors or permitted assigns against any other party shall be brought and determined in the Court of Chancery of the State of Delaware.

6. Severability. Whenever possible, each provision or portion of any provision of this Agreement shall be interpreted in such manner as to be effective and valid under applicable law, but if any provision or portion of any provision of this Agreement is held to be invalid, illegal or unenforceable in any respect under any applicable law or rule in any jurisdiction, such invalidity, illegality or unenforceability shall not affect any other provision or portion of any provision in such jurisdiction, and this Agreement shall be reformed, construed and enforced in such jurisdiction as if such invalid, illegal or unenforceable provision or portion of any provision had never been contained herein.

7. Counterparts. This Agreement may be executed in two counterparts, all of which shall be considered one and the same instrument and shall become effective when one or more counterparts have been signed by each of the parties and delivered to the other parties.

*Remainder of page intentionally left blank.*

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed by their duly authorized representatives as of the Effective Date.

ASSIGNOR:

**GENERAL ELECTRIC COMPANY**

By: Kirsten M. Max

Name: Kirsten M. Max

Title: Authorized Signatory

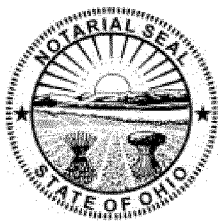
CERTIFICATE OF ACKNOWLEDGEMENT

STATE OF OHIO

SS:

COUNTY OF CLERMONT

On this 30th day of June, 2024 before me, the undersigned, personally appeared Kirsten M. Max, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to within the instrument and acknowledged to me that he/she executed the same in his/her capacity, and that by his/her signature on the instrument, the individual, or the person on behalf of whom the individual acted, executed the instrument.



LISA BREYMEIER  
Notary Public, State of Ohio  
My Commission Expires:  
MAY 2, 2029

Lisa Breymeier

Notary Signature and Seal

ASSIGNEE:

GE INTELLECTUAL PROPERTY LICENSING, LLC

By:

Name: Hasan Rashid

Title: Vice President


CERTIFICATE OF ACKNOWLEDGEMENT

STATE OF OHIO

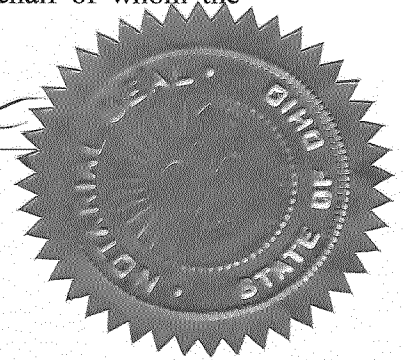
SS:

COUNTY OF HAMILTON

On this 30<sup>th</sup> day of June 2024 before me, the undersigned, personally appeared HASAN RASHID, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to within the instrument and acknowledged to me that he/she executed the same in his/her capacity, and that by his/her signature on the instrument, the individual, or the person on behalf of whom the individual acted, executed the instrument.

  
Notary Signature and Seal

My Commission Expires  
September 9, 2026



[Signature Page to Intellectual Property Contribution, Assignment and Assumption Agreement]

Attachment A

Patents



Patent Reference	Country	Filed Date	Application Number	Grant Date	Patent No.	Patent Application Title
312969-US-1	United States of America	2016-06-30	15/199,282	2019-05-21	10,298,503	COMMUNICATION SYSTEM AND METHOD FOR INTEGRATING A DATA DISTRIBUTION SERVICE INTO A TIME SENSITIVE NETWORK
312969-US-2	United States of America	2019-04-18	16/388,075	2020-11-03	10,826,834	COMMUNICATION SYSTEM AND METHOD FOR INTEGRATING A DATA DISTRIBUTION SERVICE INTO A TIME SENSITIVE NETWORK
312969-US-3	United States of America	2020-10-13	17/069,702	2023-01-24	11,563,688	COMMUNICATION SYSTEM AND METHOD FOR INTEGRATING A DATA DISTRIBUTION SERVICE INTO A TIME SENSITIVE NETWORK
312969-US-4	United States of America	2023-01-20	18/157,243			COMMUNICATION SYSTEM AND METHOD FOR INTEGRATING A DATA DISTRIBUTION SERVICE INTO A TIME SENSITIVE NETWORK

Patent Reference	Country	Filed Date	Application Number	Grant Date	Patent No.	Patent Application Title
318112-US-1	United States of America	2017-05-01	15/583,149	2020-10-13	10,805,222	RESILIENT NETWORK CONFIGURATION FOR TIME SENSITIVE TRAFFIC
318112-US-10	United States of America	2020-05-21	18/880,407	2023-10-24	11,799,788	RESILIENT NETWORK CONFIGURATION FOR TIME SENSITIVE TRAFFIC
318112-US-12	United States of America	2023-09-20	18/471,040			RESILIENT NETWORK CONFIGURATION FOR TIME SENSITIVE TRAFFIC
318112-US-9	United States of America	2023-05-22	18/321,545			RESILIENT NETWORK CONFIGURATION FOR TIME SENSITIVE TRAFFIC

Patent Reference	Country	Filed Date	Application Number	Grant Date	Patent No.	Patent Application Title
320252-US-1	United States of America	2017-10-23	62/575719			SYSTEM AND METHOD FOR CONTROLLING TIME DILATION IN TIME-SENSITIVE NETWORKS
320252-US-2	United States of America	2017-12-07	15/835066	2019-12-17	10,511,403	SYSTEM AND METHOD FOR CONTROLLING TIME DILATION IN TIME-SENSITIVE NETWORKS
320252-US-3	United States of America	2019-11-13	16/682,929	2021-01-26	10,903,934	SYSTEM AND METHOD FOR CONTROLLING TIME DILATION IN TIME-SENSITIVE NETWORKS
320252-US-4	United States of America	2020-12-22	17/131,728	2024-01-02	11,863,300	SYSTEM AND METHOD FOR CONTROLLING TIME DILATION IN TIME-SENSITIVE NETWORKS
320252-US-5	United States of America	2023-12-29	18/400,068			SYSTEM AND METHOD FOR CONTROLLING TIME DILATION IN TIME-SENSITIVE NETWORKS

Patent Reference	Country	Filed Date	Application Number	Grant Date	Patent No.	Patent Application Title
324809-US-1	United States of America	2018-11-12	62/758,791			FREQUENCY-BASED LOCOMOTIVE COMMUNICATION SYSTEM
324809-US-2	United States of America	2019-02-21	16/281,406	2021-02-02	10,912,101	FREQUENCY-BASED LOCOMOTIVE COMMUNICATION SYSTEM
324809-US-3	United States of America	2020-12-23	17/132,434	2023-09-26	11,770,816	FREQUENCY-BASED COMMUNICATION SYSTEM AND METHOD
324809-US-4	United States of America	2023-08-23	18/457,041			FREQUENCY-BASED LOCOMOTIVE COMMUNICATION SYSTEM

Patent Reference	Country	Filed Date	Application Number	Grant Date	Patent No.	Patent Application Title
502452-US-1	United States of America	2019-07-30	16/525,807	2023-07-04	11,693,763	RESILIENT ESTIMATION FOR GRID SITUATIONAL AWARENESS
502452-US-2	United States of America	2023-05-22	18/321,545			RESILIENT ESTIMATION FOR GRID SITUATIONAL AWARENESS
508927-US-1	United States of America	2021-09-20	17/479,370			SYSTEMS AND METHODS FOR NODE SELECTION AND RANKING IN CYBER-PHYSICAL SYSTEMS
508927-WO-2	Patent Cooperation Treaty	2022-09-20	PCT/US2022/076711			SYSTEMS AND METHODS FOR NODE SELECTION AND RANKING IN CYBER-PHYSICAL SYSTEMS

Patent Reference	Country	Filed Date	Application Number	Grant Date	Patent No.	Patent Application Title
602905-US-1	United States of America	2021-08-19	17/406,205			SYSTEMS AND METHODS FOR CYBER-FAULT DETECTION
602905-WO-2	Patent Cooperation Treaty	2022-08-19	PCT/US2022/075196			SYSTEMS AND METHODS FOR CYBER-FAULT DETECTION
602922-US-1	United States of America	2021-08-19	17/406,246			SYSTEMS AND METHODS FOR SELF-ADAPTING NEUTRALIZATION AGAINST CYBER-FAULTS
602922-WO-2	Patent Cooperation Treaty	2022-08-19	PCT/US2022/75198			SYSTEMS AND METHODS FOR SELF-ADAPTING NEUTRALIZATION AGAINST CYBER-FAULTS
604111-US-1	United States of America	2022-03-31	63/325,736			SAFETY AND SECURITY OF CYBER-PHYSICAL SYSTEMS CONNECTED THROUGH IOT NETWORK
604111-US-2	United States of America	2022-03-24	63/323,241			SAFETY AND SECURITY OF CYBER-PHYSICAL SYSTEMS CONNECTED THROUGH IOT NETWORK
604111-WO-3	Patent Cooperation Treaty	2023-03-24	PCT/US2023/016265			SAFETY AND SECURITY OF CYBER-PHYSICAL SYSTEMS CONNECTED THROUGH IOT NETWORK

Patent Reference	Country	Filed Date	Application Number	Grant Date	Patent No.	Patent Application Title
604346-US-1	United States of America	2021-07-14	63/221,802			SYSTEM AND METHOD FOR IMPLEMENTING QUANTUM-SECURE WIRELESS NETWORKS
604346-US-7	United States of America	2024-01-12	18/579,254			SYSTEM AND METHOD FOR IMPLEMENTING QUANTUM-SECURE WIRELESS NETWORKS
604346-WO-2	Patent Cooperation Treaty	2022-07-14	PCT/US2022/037143			SYSTEM AND METHOD FOR IMPLEMENTING QUANTUM-SECURE WIRELESS NETWORKS
604347-US-1	United States of America	2021-07-15	63/222,325			SYSTEM AND METHOD FOR CONFIGURING NETWORK SLICES FOR TIME-SENSITIVE NETWORKS
604347-US-7	United States of America	2024-01-12	18/579,250			SYSTEM AND METHODS FOR CONFIGURING NETWORK SLICES FOR TIME-SENSITIVE NETWORKS
604347-WO-2	Patent Cooperation Treaty	2022-07-15	PCT/US2022/037367			SYSTEM AND METHODS FOR CONFIGURING NETWORK SLICES FOR TIME-SENSITIVE NETWORKS
604349-US-7	United States of America	2022-07-15	18/579,253			SYSTEM AND METHOD FOR TIME-SENSITIVE NETWORK (TSN) IMPLEMENTATION OF NETWORK SLICING
604349-WO-2	Patent Cooperation Treaty	2022-07-15	PCT/US2022/037278			SYSTEM AND METHOD FOR TIME-SENSITIVE NETWORK (TSN) IMPLEMENTATION OF NETWORK SLICING

Patent Reference	Country	Filed Date	Application Number	Grant Date	Patent No.	Patent Application Title
605818-US-1	United States of America	2022-03-04	63/316,808			MULTI-ACCESS EDGE COMPUTING (MEC) CONTROL AND RESOURCE CHARACTERIZATION
605818-WO-2	Patent Cooperation Treaty	2023-03-06	PCT/US2023/063804			MULTI-ACCESS EDGE COMPUTING (MEC) CONTROL AND RESOURCE CHARACTERIZATION
605823-US-1	United States of America	2021-12-20	63/291,501			NETWORK CONFIGURATION USING COUPLED OSCILLATORS
605823-WO-2	Patent Cooperation Treaty	2022-12-20	PCT/US2022/082004			NETWORK CONFIGURATION USING COUPLED OSCILLATORS
605831-US-1	United States of America	2022-03-10	63/318,431			5G SCHEDULING USING TIME SENSITIVE NETWORK INFORMATION
605831-US-3	United States of America	2022-03-11	63/318,896			5G SCHEDULING USING TIME SENSITIVE NETWORK INFORMATION
605831-WO-2	Patent Cooperation Treaty	2023-03-10	PCT/US2023/064093			5G SCHEDULING USING TIME SENSITIVE NETWORK INFORMATION
605893-US-1	United States of America	2021-12-21	63/292,228			DISAGGREGATED TSN 5G SYSTEM
605893-WO-3	Patent Cooperation Treaty	2022-12-21	PCT/US2022/082124			DISAGGREGATED TSN 5G SYSTEM
606196-US-1	United States of America	2021-12-20	63/291,500			DETERMINISTIC 5G MIMO AND TSN
606196-WO-2	Patent Cooperation Treaty	2022-12-20	PCT/US2022/082025			DETERMINISTIC 5G MIMO AND TSN
606915-US-1	United States of America	2022-05-23	63/344,711			DISTRIBUTED ANOMALY DETECTION AND LOCALIZATION FOR CYBER-PHYSICAL SYSTEMS
606915-WO-2	Patent Cooperation Treaty	2023-05-22	PCT/US2023/067283			DISTRIBUTED ANOMALY DETECTION AND LOCALIZATION FOR CYBER-PHYSICAL SYSTEMS
607309-US-1	United States of America	2022-09-09	63/375,205			SYSTEM AND METHOD FOR POWER GRID SENSING
607309-US-3	United States of America	2023-08-02	63/508,031			SYSTEM AND METHOD FOR POWER GRID SENSING
607309-US-4	United States of America	2023-08-15	63/508,357			SYSTEM AND METHOD FOR POWER GRID SENSING
607309-WO-2	Patent Cooperation Treaty	2023-09-11	PCT/US2023/073680			SYSTEM AND METHOD FOR DISTRIBUTED QUANTUM ENTANGLEMENT



Patent Reference	Country	Filed Date	Application Number	Grant Date	Patent No.	Patent Application Title
604349-US-1	United States of America	2021-07-15	63/222,316			IMPLEMENTATION OF NETWORK SLICING
508927-US-5	United States of America	2022-09-20				Systems and Methods for Node Selection and Ranking in Cyber-Physical Systems
605823-US-3	United States of America	2022-12-20				NETWORK CONFIGURATION USING COUPLED OSCILLATORS
604111-US-4	United States of America	2023-03-24				SAFETY AND SECURITY OF CYBER-PHYSICAL SYSTEMS CONNECTED THROUGH IOT NETWORK

Patent Reference	Country	Filed Date	Application Number	Grant Date	Patent No.	Patent Application Title
606196-US-4	United States of America	2022-12-20				DETERMINISTIC 5G MIMO AND TSN
605893-US-4	United States of America	2022-12-21				Disaggregated TSN 5G System