PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
LENOVO (UNITED STATES) INC. A CORPORATION OF DELAWARE	03/28/2023

RECEIVING PARTY DATA

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State/Country:	SINGAPORE
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PROPERTY NUMBERS Total: 16

Property Type	Number
Application Number:	63024493
Application Number:	17924676
Application Number:	63024477
Application Number:	17924351
Application Number:	63025093
Application Number:	17924677
Application Number:	63037525
Application Number:	18009318
Application Number:	63076338
Application Number:	18025483
Application Number:	63074990
Application Number:	18023734
Application Number:	63104453
PCT Number:	US2021056137
Application Number:	63150530
PCT Number:	US2022016728

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SIGNATURE:	/Lawrence Chapa/
DATE SIGNED:	04/20/2023

Total Attachments: 9
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ASSIGNMENT

This Assignment is effective as of March 28, 2023 between:

Lenovo (United States) Inc. (Assignor), a corporation organized and existing under the laws of Delaware, and having a principal place of business at 8001 Development Drive, 2nd Floor, Morrisville, North Carolina 27560, United States of America;

and

Lenovo (Singapore) PTE. LTD (Assignee), a corporation organized and existing under the laws of Singapore, having a principal place of business at 151, Lorong Chuan #02-01, New Tech Park, Singapore 556741.

WHEREAS, Assignor is the owner of the patent applications and/or patents, identified on Schedule 1 of this Assignment (collectively, the "Patents," and each, a "Patent");

FOR GOOD AND VALUABLE CONSIDERATION, the receipt of which is hereby acknowledged, Assignor hereby sells, assigns, and transfers to Assignee and its successors and assigns, all right, title, and interest in each of the Patents and any and all inventions and improvements disclosed therein, and all rights in or arising from each of the Patents, including, without limitation, all rights in the following (collectively, the "Assigned Rights"):

I. in and to any and all letters patent which may be granted therefrom, and all provisional application, international stage applications, national stage applications, divisionals, continuations, continuations-in-part, substitutions, utility models, utility certificates, design certificates, renewals, reexaminations, and reissues, associated with or based on any of the Patents, including the right to apply for any of the above directly in Assignee's own name where applicable; to claim priority of the filing date of any one or more of the Patents under all applicable national laws, and under any and all international conventions, agreements, and treaties, and all rights under the International Convention for the Protection of Industrial Property; and

II. to all causes of action, remedies, and other enforcement rights related to any or each of the Patents, including without limitation the right to sue for past, present, or future infringement, misappropriation, or violation of any and all rights related to the applicable Patent(s), including the right to obtain and collect damages for such past, present, or future infringement;

wherein the Assigned Rights are to be held and enjoyed by Assignee for its own use and benefit, and the use and benefit of its successors, legal representatives, and assigns, to the full end of the term or terms for each Patent, as may be granted and/or extended, as fully and entirely as the Assigned Rights would have been held and enjoyed by Assignor, had this Assignment not been made.

Assignor agrees that it, its successors, assigns, and legal representatives will make, execute, and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments, and other documents which may be necessary or desirable to secure, vest, or evidence the Assigned Rights.

In the event that any provision of this Assignment is held unenforceable by an authority of competent jurisdiction, such a ruling shall not affect the validity and enforceability of the remaining provisions.

AGREED to by Assignor as of the date below; and ACCEPTED by Assignee as of the date below.

Lenovo (United States) Inc. **Assignor** DocuSigned by: By: Yu Chen 3A28594B21734A2... Name: Chen Yu Title: Director, IP Date: March 28, 2023	**Lenovo (Singapore) PTE. LTD.** **Assignee** DocuSigned by: By: Yu Chen 3A28594B21734A2... Name: Chen Yu Title: Director, IP Date: March 28, 2023

Schedule 1

No.	Internal Patent Docket	Country	Application Number	Filing Date	Title
1	SMM920210244-WO-PCT	WO	PCT/US23/64589	3/16/2023	GROUP DEVICE SIGNALING TO COMPENSATE FOR OUTDATED INFORMATION IN A NON-TERRESTRIAL NETWORK (NTN)
2	SMM920210262-WO-PCT	WO	PCT/US23/64611	3/17/2023	METHOD FOR DISCOVERY OF NETWORK SUPPORTING LOCALIZED SERVICE
3	SMM920210243-WO-PCT	WO	PCT/US23/64574	3/16/2023	CHANNEL PROPERTY REPORTING CONFIGURATIONS FOR NON-TERRESTRIAL NETWORKS (NTNs)
4	SMM920210242-WO-PCT	WO	PCT/US23/64475	3/15/2023	AI/ML BASED PREDICTION FOR COMPENSATING CHANNEL AGING IN NON-TERRESTRIAL NETWORKS
5	SMM920210251-WO-PCT	WO	PCT/IB2023/053031	3/27/2023	REPLACEMENT OF AN UNTRUSTED NETWORK FUNCTION
6	SMM920200039-CN-PCT	CN	202180040704.X	5/12/2021	APPARATUS AND METHOD OF CANCELLING A PUSCH TRANSMISSION

7	SMM920200038-CN-PCT	CN	202180040716.2	5/13/2021	METHOD AND APPARATUS INCLUDING SEARCH SPACE SWITCHING FOR ULTRA-RELIABLE LOW-LATENCY COMMUNICATION
8	SMM920200066-CN-PCT	CN	202180041651.3	6/10/2021	METHOD AND APPARATUS FOR MORE POWER EFFICIENT PHYSICAL DOWNLINK CONTROL CHANNEL MONITORING AFTER A RANDOM ACCESS TRANSMISSION
9	SMM920200044-CN-PCT	CN	202180041556.3	5/14/2021	METHOD AND APPARATUS FOR THE SELECTIVE DECODING OF PHYSICAL DOWNLINK CONTROL CANDIDATES BASED ON A DETERMINED FREQUENCY LOCATION AND FREQUENCY HOPPING
10	SMM920200066-BR-PCT	BR	1120220253370	6/10/2021	METHOD AND APPARATUS FOR MORE POWER EFFICIENT PHYSICAL DOWNLINK CONTROL CHANNEL MONITORING AFTER A RANDOM ACCESS TRANSMISSION

11	SMM920200066-IN-PCT	IN	202217077208	6/10/2021	METHOD AND APPARATUS FOR MORE POWER EFFICIENT PHYSICAL DOWNLINK CONTROL CHANNEL MONITORING AFTER A RANDOM ACCESS TRANSMISSION
12	SMM920210088-US-PSP2	US	63/247,307	9/23/2021	LOCATION SERVER ARCHITECTURAL ENHANCEMENTS FOR NON-TERRESTRIAL NETWORKS
13	SMM920210141-WO-PCT	WO	11/29/2022	PCT/IB2022/061556	REPEATER CONFIGURATION FOR CHANNEL STATE INFORMATION REFERENCE SIGNAL
14	SMM920210133-WO-PCT	WO	11/3/2022	PCT/IB2022/060620	LCP PROCEDURE CONSIDERING INTER-UE COORDINATION SCHEMES
15	SMM920210208-WO-PCT	WO	2/8/2023	PCT/IB2023/051137	ON-DEMAND PRS CONFIGURATION PARAMETERS
16	SMM920210132-WO-PCT	WO	11/3/2022	PCT/IB2022/060617	INTER-UE COORDINATION SCHEME RESTRICTION DURING CONGESTION
17	SMM920200059-CN-PCT	CN	5/27/2021	202180038435.3	APPARATUS AND METHOD OF DETERMING A GROUPED OPERATION MODE

					ON A WIRELESS NETWORK
18	SMM920200039-US-PCT	US	5/12/2021	17/924,351	APPARATUS AND METHOD OF CANCELLING A PUSCH TRANSMISSION
19	SMM920200038-US-PCT	US	5/13/2021	17/924,676	METHOD AND APPARATUS INCLUDING SEARCH SPACE SWITCHING FOR ULTRA-RELIABLE LOW-LATENCY COMMUNICATION
20	SMM920200066-US-PCT	US	6/10/2021	18/009,318	METHOD AND APPARATUS FOR MORE POWER EFFICIENT PHYSICAL DOWNLINK CONTROL CHANNEL MONITORING AFTER A RANDOM ACCESS TRANSMISSION
21	SMM920200044-US-PCT	US	5/14/2021	17/924,677	METHOD AND APPARATUS FOR THE SELECTIVE DECODING OF PHYSICAL DOWNLINK CONTROL CANDIDATES BASED ON A DETERMINED FREQUENCY LOCATION AND FREQUENCY HOPPING
22	SMM920200148-US-PCT	US	9/3/2021	18/023,734	APPARATUS AND METHOD OF TRANSMITTING A

					CSI REPORT ON A TRANSMISSION OCCASION
23	SMM920200147-US-PCT	US	9/9/2021	18/025,483	METHOD AND APPARATUS INCLUDING EVENT TRIGGERED GOAL CHANGE FOR CONTROL LOOPS
24	SMM920200059-US-PCT	US	5/27/2021	17/927,318	APPARATUS AND METHOD OF DETERMINING AN OPERATION MODE ON A WIRELESS NETWORK
25	SMM920200182-WO-PCT	WO	10/21/2021	PCT/US2021/055929	APPARATUS AND METHOD OF COMMUNICATING ON DIFFERENT BEAMS
26	SMM920200180-WO-PCT	WO	10/22/2021	PCT/US2021/056137	UPLINK TIMING MAINTENANCE FOR COMMUNICATION PATHS INCLUDING MULTIPLE LEGS INVOLVING A RELAY ENTITY
27	SMM920200250-WO-PCT	WO	2/17/2022	PCT/US2022/016728	METHOD AND APPARATUS INCLUDING RECURSIVE CLOSED LOOP GOAL TRANSLATION AND CONFIGURATION
28	SMM920200039-EP-EPT	EP	5/12/2021	21730357.7	APPARATUS AND METHOD OF CANCELLING A PUSCH TRANSMISSION

29	SMM920200038-EP-EPT	EP	5/13/2021	21730396.5	METHOD AND APPARATUS INCLUDING SEARCH SPACE SWITCHING FOR ULTRA-RELIABLE LOW-LATENCY COMMUNICATION
30	SMM920200066-EP-EPT	EP	6/10/2021	21736901.6	METHOD AND APPARATUS FOR MORE POWER EFFICIENT PHYSICAL DOWNLINK CONTROL CHANNEL MONITORING AFTER A RANDOM ACCESS TRANSMISSION
31	SMM920200044-EP-EPT	EP	5/14/2021	21729775.3	METHOD AND APPARATUS FOR THE SELECTIVE DECODING OF PHYSICAL DOWNLINK CONTROL CANDIDATES BASED ON A DETERMINED FREQUENCY LOCATION AND FREQUENCY HOPPING
32	SMM920200148-EP-EPT	EP	9/3/2021	21790313.7	APPARATUS AND METHOD OF TRANSMITTING A CSI REPORT ON A TRANSMISSION OCCASION
33	SMM920200059-EP-EPT	EP	5/27/2021	21735472.9	APPARATUS AND METHOD OF DETERMING A GROUPED

					OPERATION MODE ON A WIRELESS NETWORK