

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	PARTIAL RELEASE OF SECURITY INTEREST IN PATENT COLLATERAL
CONVEYING PARTY DATA	
Name	Execution Date
MUFG UNION BANK, N.A. (FORMERLY KNOWN AS UNION BANK, N.A.), AS AGENT	04/01/2022
RECEIVING PARTY DATA	
Name:	VIASAT, INC.
Street Address:	6155 EL CAMINO REAL
City:	CARLSBAD
State/Country:	CALIFORNIA
Postal Code:	92009
PROPERTY NUMBERS Total: 27	
Property Type	Number
Patent Number:	8687974
Patent Number:	8886051
Patent Number:	8731413
Patent Number:	9287979
Application Number:	61755901
Patent Number:	9025651
Application Number:	61755902
Patent Number:	9094132
Patent Number:	9755757
Application Number:	61755895
Patent Number:	9112607
Application Number:	61755897
Patent Number:	9112615
Application Number:	14798118
Application Number:	61755900
Patent Number:	9203558
Patent Number:	10560289
Patent Number:	11038722
Patent Number:	10587294

PATENT

Property Type	Number
Patent Number:	11005508
Patent Number:	10630459
Patent Number:	11063742
Patent Number:	10708095
Patent Number:	11044126
Patent Number:	10778339
Patent Number:	11159243
Application Number:	17489720

CORRESPONDENCE DATA

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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.

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ATTORNEY DOCKET NUMBER: 021038-0151

NAME OF SUBMITTER: RHONDA DELEON

SIGNATURE: /Rhonda DeLeon/

DATE SIGNED: 04/04/2022

Total Attachments: 7

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PARTIAL RELEASE OF SECURITY INTEREST IN PATENT COLLATERAL

This **PARTIAL RELEASE OF SECURITY INTEREST IN PATENT COLLATERAL** (the “Release”) is dated as of April 1, 2022 by MUFG UNION BANK, N.A. (formerly known as UNION BANK, N.A.), a member of MUFG, a global financial group, as Agent for the Secured Parties (in such capacity, the “Agent”) in favor of VIASAT, INC., a Delaware corporation (the “Grantor”). Capitalized terms used, but not otherwise defined herein have the meanings assigned to them in the Security Agreement or the Patent Security Agreement.

W I T N E S S E T H

WHEREAS, the Grantor and the Agent entered into that certain Security Agreement, dated as of November 26, 2013 (as amended from time to time, the “Security Agreement”);

WHEREAS, pursuant to the Security Agreement, the Grantor executed and delivered to the Agent that certain (i) Patent Security Agreement, dated as of November 26, 2013 (the “2013 Patent Security Agreement”) and recorded with the United States Patent and Trademark Office (“USPTO”) on December 23, 2013 at Reel/Frame No. 31868/0789 and (ii) Patent Security Agreement, dated as of May 24, 2016 (the “2016 Patent Security Agreement” and together with the Patent Security Agreement, the “Patent Security Agreements”) and recorded with the USPTO on May 24, 2016 at Reel/Frame No. 38799/0714, pursuant to which the Grantor granted to the Agent a continuing first-priority lien and security interest in all of Grantor’s right, title and interest in, to and under the Patent Collateral (as defined in the Patent Security Agreements);

WHEREAS, the Agent has agreed to release its security interest in all of the right, title and interest in and to the issued patents and patent applications set forth in Schedule 1, attached hereto and incorporated herein by this reference (the “Released Collateral”), and to reconvey any and all of its right, title, and interest in and to the Released Collateral to the Grantor; and


WHEREAS, the security interest in the remaining Patent Collateral granted to the Agent pursuant to the Patent Security Agreements (the “Remaining Collateral”), will be unaffected by this Release and such security interest in the Remaining Collateral will continue in full force and effect.

NOW, THEREFORE, for and in consideration of the foregoing, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and upon the terms set forth in this Release, the Agent hereby TERMINATES, without recourse, representation, or warranty of any kind or nature the security interest in the Released Collateral, RELEASES and forever discharges, without recourse, representation, or warranty of any kind or nature its security interest in the Released Collateral, and retransfers and reassigns to the Grantor any right, title or interest the Agent may have in, to or under the Released Collateral, without representation or warranty. The Agent shall retain its security interest in all other portions of the Patent Collateral that are not the Released Collateral that is the subject of this Release.

[SIGNATURE PAGE FOLLOWS]

IN WITNESS WHEREOF, the Agent has caused this Release to be duly executed and delivered as of the date first written above.

MUFG UNION BANK, N.A., as Agent

By: 
Name: Edmund Ozorio
Title: Vice President

SCHEDULE I
to
RELEASE OF SECURITY INTEREST IN PATENT COLLATERAL
PATENTS

Patents

As set forth in **Appendix 1** attached and including any (i) patents, patent applications, utility models, inventor certificates, and design applications or registrations issuing or claiming priority from any of the patents or patent applications set forth in Appendix 1 anywhere in the world, including reissues, divisions, divisionals, renewals, reexaminations, extensions, provisionals, substitutions, extensions, continuations and continuations-in-part thereof; and (ii) international filings, regional filings, domestic filings, conversions or foreign counterparts of the patents and patent applications listed in Appendix 1 or the applications and registrations described in clause (i).

APPENDIX 1

See attached.

SCHEDULE 1
ASSIGNED PATENTS AND PATENT APPLICATIONS

Patent No.	Issued Date	Patent App. No. *abandoned /expired	App. Date	Pub. No.	Country	Title
8,687,974	1-Apr-2014	13/205,441	8-Aug-2011	US 2012-0189320 A1	US	Skew compensation and tracking in communications systems
8,886,051	11-Nov-2014	14/178,986	12-Feb-2014	US 2014-0161470 A1	US	Skew compensation and tracking in communications systems
8,731,413	20-May-2014	13/356,167	23-Jan-2012	N/A	US	DAC-based optical modulator and demodulator
9,287,979	15-Mar-2016	14/243,720	2-Apr-2014	US 2014-0363173 A1	US	DAC-BASED OPTICAL MODULATOR AND DEMODULATOR
N/A	N/A	61/755,901 *	23-Jan-2013	N/A	US	Simplified polarization mode dispersion equalization
9,025,651	5-May-2015	13/835,092	15-Mar-2013	US 2013-13835092 A1	US	Simplified polarization mode dispersion equalization
N/A	N/A	61/755,902 *	23-Jan-2013	N/A	US	High data rate optical transport network using 8-PSK
9,094,132	28-Jul-2015	13/835,119	15-Mar-2013	US 2016-080091 A1	US	High data rate optical transport network using 8-PSK
9,755,757	5-Sep-2017	14/747,990	23-Jun-2015	US 2016-0080091 A1	US	HIGH DATA RATE OPTICAL TRANSPORT NETWORK USING 8-PSK
N/A	N/A	61/755,895 *	23-Jan-2013	N/A	US	Low power low complexity chromatic dispersion compensation
9,112,607	18-Aug-2015	13/835,027	15-Mar-2013	US 2013-13835027 A1	US	Low power low complexity chromatic dispersion compensation
N/A	N/A	61/755,897 *	23-Jan-2013	N/A	US	Low cycle slip phase recovery for coherent receiver
9,112,615	18-Aug-2015	13/835,057	15-Mar-2013	US 2013-13835057 A1	US	Low cycle slip phase recovery for coherent receiver
N/A	N/A	14/798,118 *	13-Jul-2015	N/A	US	UNKNOWN – UNPUBLISHED
N/A	N/A	61/755,900 *	23-Jan-2013	N/A	US	Soft-decision decoding of differential 16-QAM
9,203,558	1-Dec-2015	14/023,993	11-Sep-2013	US 2013-14023993 A1	US	Soft-decision decoding of differential 16-QAM
10,560,289	11-Feb-2020	16/130,749	13-Sep-2018	N/A	US	Adaptive equalizer system
11,038,722	15-Jun-2021	16/750,597	23-Jan-2020	US 2020-0267029 A1	US	ADAPTIVE EQUALIZER SYSTEM
N/A	N/A	PCT/US19/50589	11-Sep-2019	WO 2020/055985	PCT	ADAPTIVE EQUALIZER SYSTEM SYSTÈME ÉGALISEUR ADAPTATIF
N/A	N/A	2019337583	10-Mar-2021	AU2019337583 A1	AU	Adaptive equalizer system
N/A	N/A	19773689.5	16-Mar-2021	EP3837816	EP	ADAPTIVE EQUALIZER SYSTEM ADAPTIVES AUSGLEICHSSYSTEM SYSTÈME ÉGALISEUR ADAPTATIF

Patent No.	Issued Date	Patent App. No. *abandoned /expired	App. Date	Pub. No.	Country	Title
N/A	N/A	10-2021-7010343	7-Apr-2021	KR2021-0076908 A1	KR	Adaptive equalizer system
10,587,294	10-Mar-2020	16/131,554	14-Sep-2018	US 2020-0091947 A1	US	Digital signal conditioner system
11,005,508	11-May-2021	16/774,697	28-Jan-2020	US 2020-0169278 A1	US	DIGITAL SIGNAL CONDITIONER SYSTEM
N/A	N/A	PCT/US19/50603	11-Sep-2019	WO 2020/055994	PCT	DIGITAL SIGNAL CONDITIONER SYSTEM
10,630,459	21-Apr-2020	16/130,633	13-Sep-2018	US 2020-0092076 A1	US	Synchronizing and aligning sample frames received on multi-component signals at a communications receiver
11,063,742	13-Jul-2021	16/792,540	17-Feb-2020	US 2020-0244433 A1	US	SYNCHRONIZING AND ALIGNING SAMPLE FRAMES RECEIVED ON MULTI-COMPONENT SIGNALS AT A COMMUNICATIONS RECEIVER
N/A	N/A	PCT/US19/50597	11-Sep-2019	WO 2020/055990	PCT	SYNCHRONIZING AND ALIGNING SAMPLE FRAMES RECEIVED ON MULTI-COMPONENT SIGNALS AT A COMMUNICATIONS RECEIVER
N/A	N/A	2019339341	10-Mar-2021	AU 2019339341 A1	AU	Synchronizing and aligning sample frames received on multi-component signals at a communications receiver
N/A	N/A	19774029.3	16-Mar-2021	EP3837782	EP	SYNCHRONIZING AND ALIGNING SAMPLE FRAMES RECEIVED ON MULTI-COMPONENT SIGNALS AT A COMMUNICATIONS RECEIVER
N/A	N/A	10-2021-7010345	7-Apr-2021	KR2021-0081337 A1	KR	Synchronization and Alignment of Sample Frames Received on a Multi-Component Signal at a Communication Receiver
10,708,095	7-Jul-2020	16/130,808	13-Sep-2018	US 2020-0092147 A1	US	Generating metrics from samples of a received signal in a communications receiver supporting multiple operating modes
11,044,126	22-Jun-2021	16/866,962	5-May-2020	US 2020-0336343 A1	US	GENERATING METRICS FROM SAMPLES OF A RECEIVED SIGNAL IN A COMMUNICATIONS RECEIVER SUPPORTING MULTIPLE OPERATING MODES
N/A	N/A	PCT/US19/50585	11-Sep-2019	WO 2020/055982	PCT	METHOD AND SYSTEM FOR GENERATING METRICS FROM SAMPLES OF A RECEIVED SIGNAL IN A COMMUNICATIONS RECEIVER SUPPORTING MULTIPLE OPERATING MODES

Patent No.	Issued Date	Patent App. No. *abandoned /expired	App. Date	Pub. No.	Country	Title
N/A	N/A	201933758 2	10-Mar-2021	AU 2019337582 A1	AU	Method and system for generating metrics from samples of a received signal in a communications receiver supporting multiple operating modes
N/A	N/A	19773318.1	16-Mar-2021	EP3837818	EP	METHOD AND SYSTEM FOR GENERATING METRICS FROM SAMPLES OF A RECEIVED SIGNAL IN A COMMUNICATIONS RECEIVER SUPPORTING MULTIPLE OPERATING MODES
N/A	N/A	10-2021- 7010347	7-Apr-2021	KR 2021- 0074293 A1	KR	Method and system for generating metrics from samples of a received signal in a communication receiver supporting multiple modes of operation
10,778,339	15-Sep-2020	16/132,325	14-Sep-2018	US 2020- 0092008 A1	US	SYSTEMS AND METHODS FOR CREATING IN A TRANSMITTER A STREAM OF SYMBOL FRAMES CONFIGURED FOR EFFICIENT PROCESSING IN A RECEIVER
11,159,243	26-Oct-2021	16/983,226	03-Aug-2020	US 2021- 0021350 A1	US	SYSTEMS AND METHODS FOR CREATING IN A TRANSMITTER A STREAM OF SYMBOL FRAMES CONFIGURED FOR EFFICIENT PROCESSING IN A RECEIVER
N/A	N/A	17/489,720	29-Sep-2021	N/A	US	SYSTEMS AND METHODS FOR CREATING IN A TRANSMITTER A STREAM OF SYMBOL FRAMES CONFIGURED FOR EFFICIENT PROCESSING IN A RECEIVER
N/A	N/A	PCT/US19/ 50617	11-Sep-2019	WO 2020/056005	PCT	SYSTEMS AND METHODS FOR CREATING IN A TRANSMITTER A STREAM OF SYMBOL FRAMES CONFIGURED FOR EFFICIENT PROCESSING IN A RECEIVER
N/A	N/A	201933945 7	11-Sep-2019	AU 2019339457 A1	AU	SYSTEMS AND METHODS FOR CREATING IN A TRANSMITTER A STREAM OF SYMBOL FRAMES CONFIGURED FOR EFFICIENT PROCESSING IN A RECEIVER
N/A	N/A	19773692.9	16-Mar-2021	EP383778	EP	SYSTEMS AND METHODS FOR CREATING IN A TRANSMITTER A STREAM OF SYMBOL FRAMES CONFIGURED FOR EFFICIENT PROCESSING IN A RECEIVER
N/A	N/A	10-2021- 7010348	7-Apr-2021	KR 2021- 0083254 A1	KR	SYSTEMS AND METHODS FOR CREATING IN A TRANSMITTER A STREAM OF SYMBOL FRAMES CONFIGURED FOR EFFICIENT PROCESSING IN A RECEIVER