

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

Assignment ID: PATI322677

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Level 3 Communications, LLC	05/31/2024
RECEIVING PARTY DATA	
Company Name:	SANDPIPER CDN, LLC
Street Address:	251 Little Falls Drive
City:	Wilmington
State/Country:	DELAWARE
Postal Code:	19808
PROPERTY NUMBERS Total: 276	
Property Type	Number
Patent Number:	7013322
Patent Number:	8543901
Patent Number:	6275470
Patent Number:	6473405
Patent Number:	6778502
Patent Number:	7953888
Patent Number:	8599697
Patent Number:	10979499
Patent Number:	8886814
Patent Number:	9197699
Patent Number:	10742723
Patent Number:	11323510
Patent Number:	8489750
Patent Number:	8015298
Patent Number:	9444884
Patent Number:	5996025
Patent Number:	6195680
Patent Number:	6272566
Patent Number:	6460082
Patent Number:	6463454

Property Type	Number
Patent Number:	6463508
Patent Number:	6763377
Patent Number:	6963910
Patent Number:	7103564
Patent Number:	7117259
Patent Number:	10255229
Patent Number:	8140672
Patent Number:	9774818
Patent Number:	11303844
Patent Number:	6505248
Patent Number:	8886761
Patent Number:	10341700
Patent Number:	10904597
Patent Number:	9992297
Patent Number:	10367908
Patent Number:	9596278
Patent Number:	8839282
Patent Number:	10484232
Patent Number:	9621669
Patent Number:	9871881
Patent Number:	10356201
Patent Number:	10893118
Patent Number:	9161080
Patent Number:	8886742
Patent Number:	9456053
Patent Number:	10187491
Patent Number:	9516136
Patent Number:	10841398
Patent Number:	11218566
Patent Number:	9451045
Patent Number:	10592330
Patent Number:	10997042
Patent Number:	10326645
Patent Number:	9817709
Patent Number:	6801936
Patent Number:	8189503
Patent Number:	8560640
Patent Number:	10511475

PATENT

REEL: 068256 FRAME: 0092

Property Type	Number
Patent Number:	10097406
Patent Number:	9628342
Patent Number:	9654355
Patent Number:	9654356
Patent Number:	9661046
Patent Number:	9722882
Patent Number:	9847917
Application Number:	17559071
Patent Number:	9634906
Patent Number:	9634907
Patent Number:	10700945
Patent Number:	10708145
Patent Number:	10931541
Patent Number:	9660874
Patent Number:	9660875
Patent Number:	9647900
Patent Number:	10652087
Patent Number:	10701148
Patent Number:	10701149
Patent Number:	10791050
Patent Number:	9755914
Patent Number:	9705754
Patent Number:	9628346
Patent Number:	9634905
Patent Number:	10608894
Patent Number:	9634918
Patent Number:	9749190
Patent Number:	9787551
Patent Number:	9887885
Patent Number:	9722883
Patent Number:	9686148
Patent Number:	10135697
Patent Number:	9667506
Patent Number:	10992547
Patent Number:	9722884
Patent Number:	9660876
Patent Number:	10862769
Patent Number:	8825830

PATENT

REEL: 068256 FRAME: 0093

Property Type	Number
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Patent Number:	9749191
Patent Number:	9641402
Patent Number:	9647901
Patent Number:	9819554
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Patent Number:	10142191
Patent Number:	11368548
Patent Number:	10826793
Patent Number:	11121936
Patent Number:	9628344
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Patent Number:	10742521
Patent Number:	9628345
Patent Number:	9654353
Patent Number:	9654354
Patent Number:	9634904
Patent Number:	9647899
Patent Number:	9641401
Patent Number:	10212238
Patent Number:	9667535
Patent Number:	10069792
Patent Number:	9742731
Patent Number:	10397180
Patent Number:	10855646
Patent Number:	11323412
Patent Number:	10104036
Patent Number:	9648127
Patent Number:	10701173
Patent Number:	11425223
Application Number:	17891675
Patent Number:	10841400
Patent Number:	11575773
Patent Number:	11601513
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Patent Number:	10057322
Patent Number:	10348801

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REEL: 068256 FRAME: 0094

Property Type	Number
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Patent Number:	10148728
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Patent Number:	10382385
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Patent Number:	11277374
Patent Number:	11627108
Patent Number:	10938941
Patent Number:	11165879
Patent Number:	10264091
Patent Number:	10601770
Patent Number:	11082394
Patent Number:	10230686
Patent Number:	10389599
Patent Number:	10666522
Patent Number:	10103945
Patent Number:	10855591
Application Number:	18105822
Application Number:	18117411
Application Number:	17946423
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Application Number:	10819673
Application Number:	11252254

PATENT

REEL: 068256 FRAME: 0095

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Application Number:	11665259
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Application Number:	10862790
Application Number:	10412186
Application Number:	11457089
Application Number:	11700318
Application Number:	10951530
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Application Number:	11595311
Application Number:	10511533
Application Number:	10924583
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Application Number:	11076181
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Application Number:	10630611
Application Number:	11134033
Application Number:	10536429
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Application Number:	18117191
Application Number:	18117164
Application Number:	17087672
Application Number:	17744798
Application Number:	16991545
Application Number:	17892198
Application Number:	17958352
Application Number:	18137754
Application Number:	18087510
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Patent Number:	10673805
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REEL: 068256 FRAME: 0096

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Patent Number:	10728319
Patent Number:	11146628
Patent Number:	11463513
Patent Number:	10645186
Patent Number:	11272028
Patent Number:	10594782
Patent Number:	11637893
Patent Number:	11546447
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Application Number:	17966858
Application Number:	17966859
Application Number:	17966861
Application Number:	17131852
Application Number:	17342138
Application Number:	18218715
Application Number:	17976914
Application Number:	18126593
Application Number:	17657221
Application Number:	17321106
Application Number:	18213529
Application Number:	18182935
Application Number:	17822525
Patent Number:	11606331

PATENT

REEL: 068256 FRAME: 0097

Property Type	Number
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Patent Number:	11700319
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Patent Number:	11496361
Patent Number:	11329877
Patent Number:	11616858
Patent Number:	11689611
Application Number:	18524129
Application Number:	18388844
Application Number:	18374950
Application Number:	18232610
Application Number:	18598631
Application Number:	18240028
Application Number:	18410234
Application Number:	18241483
Application Number:	18241516
Application Number:	18517660
Application Number:	18392614
Application Number:	18241528
Application Number:	18374989
Application Number:	18384206
Application Number:	18433642
Application Number:	18237672
Application Number:	18232675
Application Number:	18442008

CORRESPONDENCE DATA

Fax Number: 8164215547

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: (816)474-6550

Email: IPDOCKET@SHB.COM,jjimenez@shb.com

Correspondent Name: Shook, Hardy & Bacon LLP

Address Line 1: 2555 GRAND BLVD

Address Line 4: KANSAS CITY, MISSOURI 64108

ATTORNEY DOCKET NUMBER:	43656.409797
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PATENT
REEL: 068256 FRAME: 0098

NAME OF SUBMITTER:	Jessica Osorio Jimenez
SIGNATURE:	Jessica Osorio Jimenez
DATE SIGNED:	07/09/2024
Total Attachments: 16 source=2024.05.31 Validity-Lumen Amendment to PPA.docx#page1.tiff source=2024.05.31 Validity-Lumen Amendment to PPA.docx#page2.tiff source=2024.05.31 Validity-Lumen Amendment to PPA.docx#page3.tiff source=2024.05.31 Validity-Lumen Amendment to PPA.docx#page4.tiff source=2024.05.31 Validity-Lumen Amendment to PPA.docx#page5.tiff source=2024.05.31 Validity-Lumen Amendment to PPA.docx#page6.tiff source=2024.05.31 Validity-Lumen Amendment to PPA.docx#page7.tiff source=2024.05.31 Validity-Lumen Amendment to PPA.docx#page8.tiff source=2024.05.31 Validity-Lumen Amendment to PPA.docx#page9.tiff source=2024.05.31 Validity-Lumen Amendment to PPA.docx#page10.tiff source=2024.05.31 Validity-Lumen Amendment to PPA.docx#page11.tiff source=2024.05.31 Validity-Lumen Amendment to PPA.docx#page12.tiff source=2024.05.31 Validity-Lumen Amendment to PPA.docx#page13.tiff source=2024.05.31 Validity-Lumen Amendment to PPA.docx#page14.tiff source=2024.05.31 Validity-Lumen Amendment to PPA.docx#page15.tiff source=2024.05.31 Validity-Lumen Amendment to PPA.docx#page16.tiff	

Exhibit 2.5-1

ASSIGNMENT AGREEMENT

This Assignment Agreement (the “Agreement”) is made and entered into this 31st day of May, 2024 (the “Execution Date”), by Level 3 Communications, LLC, a company formed under the laws of the State of Delaware, having its registered office at 100 CenturyLink Drive, Monroe, LA 70201 (“Assignor”) and Sandpiper CDN, LLC, a limited liability company formed under the laws of the State of Delaware, having its registered office at 251 Little Falls Drive, Wilmington, DE 19808 (“Assignee”).

RECITALS

A. Assignor is the owner of (select as appropriate) of the patents as set forth on Appendix A-1 hereto (the “Patents”).

B. Assignor and Assignee have agreed by way of a purchase agreement (the “Purchase Agreement”) dated April 24, 2024 and amended May 31, 2024, by and between Assignor and Assignee, the terms of which are incorporated herein by reference, that Assignor shall sell, transfer, and assign and set over unto Assignee and Assignee shall accept, all rights, title and interest in and to the Patents as specified in this Agreement. In the event of any conflict between the terms of this Patent Assignment Agreement and the referenced Purchase Agreement, the terms of the Purchase Agreement shall prevail,

AGREEMENT

NOW, THEREFORE, in consideration of the foregoing premises, and the covenants and agreements in this Assignment, Assignor and Assignee agree as follows:

1. Assignor does hereby sell, transfer, convey, assign and deliver to Assignee all of Assignor's right, privilege, title and interest in, to and under the Patents and in the case of patent applications in and to any patents that may issue therefrom, including, in all instances, any counterparts of any of the foregoing in any jurisdiction throughout the world, and any and all divisions, continuations, reissues or reexaminations of any of the foregoing, and, further, all applications for industrial property protection, including without limitation, all applications for patents, utility models, and designs which may hereafter be filed for any inventions described in said Patents in any country or countries, together with the right to file such applications and the right to claim for the same the priority rights derived from the inventions and the Patents under the laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable, in each instance the same to be held by Assignee for Assignee's own use and enjoyment, and for the use and enjoyment of Assignee's successors, assigns and other legal representatives, as fully and entirely as the same would have been held and enjoyed by Assignor if this Assignment and sale had not been made; together with all claims for damages, information, rendering of accounts, destruction of infringing goods, payments, royalties, income or other remuneration (hereinafter “Damages”) now or hereafter due or payable with respect thereto, and all causes of action (whether in law or equity) by reason of past, present and future infringements of the Patents or other rights being assigned hereunder, along with the right to sue for, counterclaim, recover and collect such Damages for the use and benefit of Assignee and its successors, assigns and other legal representatives. Assignee hereby accepts this assignment.

2. Insofar as this assignment concerns European patents and patent applications, Assignor does hereby declare that it is the owner of said Patents and that Assignor has assigned same, along with all rights and duties appurtenant thereto, to Assignee and agree that the assignment will be recorded in the register with the European Patent Office and/or national patent offices; and Assignee hereby declares that Assignee has agreed to the assignment of the aforementioned Patents to it and that Assignee will simultaneously apply for recording

of the assignment in the register with the European Patent Office and/or national patent offices.

3. Assignor hereby authorizes and requests the Commissioner for Patents of the United States, and any officer of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of intellectual property protection or applications as aforesaid, to issue the same to Assignee and its successors, assigns and other legal representatives in accordance with the terms of this instrument.

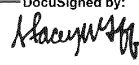
4. Assignor agrees that, whenever reasonably requested by Assignee, Assignor will execute all papers, take all rightful oaths, and do all acts which may be reasonably necessary for securing and maintaining the Patents in any country and for vesting title thereto in Assignee, its successors, assigns and legal representatives or nominees.

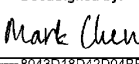
5. Assignor authorizes and empowers Assignee, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for the inventions, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable, and to invoke and claim such right of priority without further written or oral authorization from Assignor.

6. Assignor hereby acknowledges and agrees that all of the rights, title and interest in and to the Patents sold, transferred, assigned and set over to Assignee hereunder include all income, royalties, damages, information claims, claims for rendering of accounts, claims for destruction of infringing goods, and payments now or hereafter due or payable with respect thereto, and all causes of action (whether in law or equity) and the right to sue, counterclaim, and recover for the past, present and future infringement of the rights assigned or to be assigned hereunder.

7. Assignor hereby consents that a copy of this Agreement shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document that may be required in any country for any purpose and more particularly in proof of the right of Assignee or nominee to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

IN WITNESS WHEREOF, the Parties have executed this Assignment on the Execution Date written at May 31, 2024.

Assignor:
DocuSigned by:
By: 
E336BC3883024F2...
Name: Stacey Goff
Title: Executive VP & Chief Legal Officer

Assignee:
DocuSigned by:
By: 
8043D18D42D04BF...
Name: Mark Chen
Title: General Counsel

Appendix A-1 to Exhibit 2.5-1
The Patents

FILE NO.	SERIAL NO.	DATE FILED	PATENT NO.
0070-US-U1	09770645	1/29/01	7,013,322
0087-US-01	09430883	11/1/99	8,543,901
0091-US-01	09336487	6/18/99	6,275,470
0091-US-C1	09888966	6/25/01	6,473,405
0091-US-C2	09916628	7/27/01	6,778,502
0091-US-C3	10630559	7/30/03	7,953,888
0091-US-C4	13118569	5/30/11	8,599,697
0092-US-C5	15997543	6/4/18	10,979,499
0100-US-C1	13899476	5/21/13	8,886,814
0100-US-C2	14537773	11/10/14	9,197,699
0100-US-C3	14948267	11/21/15	10,742,723
0100-US-C4	16987462	8/7/20	11,323,510
0100-US-I1	12880313	9/13/10	8,489,750
0100-US-U1	12390560	2/23/09	8,015,298
0100-US-U3	13495114	6/13/12	9,444,884
0116-US-01	08961704	10/31/97	5,996,025
0118-US-01	09121379	7/23/98	6,195,680
0121-US-01	09195094	11/18/98	6,272,566
0124-US-01	09335274	6/17/99	6,460,082
0125-US-01	09335272	6/17/99	6,463,454
0126-US-01	09357059	7/19/99	6,463,508
0128-US-01	09518356	3/3/00	6,763,377
0130-US-01	09518359	3/3/00	6,963,910
0131-US-01	09640513	8/17/00	7,103,564
0133-US-01	09518349	3/3/00	7,117,259
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0234-US-U1	12767338	4/26/10	8,140,672
0234-US-U2	13724102	12/21/12	9,774,818
0234-US-U2-C1	15706656	9/15/17	11,303,844
0358-US-01	09275636	3/24/99	6,505,248
0367-US-01	12495990	7/1/09	8,886,761
0374-US-C1	15728711	10/10/17	10,341,700
0374-US-C2	16458876	7/1/19	10,904,597
0376-US-C1	15456443	3/10/17	9,992,297
0376-US-C2	15996849	6/4/18	10,367,908

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0378-US-01	13081929	4/7/11	8,839,282
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0384-US-D2	14537733	11/10/14	9,871,881
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0394-US-U1-C2	14302944	6/12/14	9,516,136
0394-US-U1-C3	16181010	11/5/18	10,841,398
0394-US-U1-C4	17095325	11/11/20	11,218,566
0394-US-U1-C5	17559071	12/22/21	
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0395-US-C1	15811480	11/13/17	10,592,330
0395-US-C2	16443073	6/17/19	10,997,042
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0413-US-C2	12699850	2/3/10	8,189,503
0413-US-C3	12699853	2/3/10	8,560,640
0417-US-C1	16155575	10/9/18	10,511,475
0417-US-U1	13840341	3/15/13	10,097,406
0447-US-U1	13714412	12/14/12	9,628,342
0447-US-U10	13714956	12/14/12	9,654,355
0447-US-U11	13715109	12/14/12	9,654,356
0447-US-U12	13715270	12/14/12	9,661,046
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0447-US-U14	13715345	12/14/12	9,847,917

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0447-US-U15	13715466	12/14/12	10,708,145
0447-US-U16	13715590	12/14/12	10,931,541
0447-US-U17	13715650	12/14/12	9,660,874
0447-US-U18	13715683	12/14/12	9,660,875
0447-US-U19	13715730	12/14/12	9,647,900
0447-US-U1-I1	14307411	6/17/14	10,652,087
0447-US-U1-I2	14307423	6/17/14	10,701,148
0447-US-U1-I3	14307429	6/17/14	10,701,149
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0447-US-U20	13715747	12/14/12	9,705,754
0447-US-U21	13715780	12/14/12	9,628,346
0447-US-U22	13802051	3/13/13	9,634,905
0447-US-U23	13802093	3/13/13	10,608,894
0447-US-U23-I1	14307374	6/17/14	9,634,918
0447-US-U24	13802143	3/13/13	9,749,190
0447-US-U25	13802291	3/13/13	9,787,551
0447-US-U25-C1	14579640	12/22/14	9,887,885
0447-US-U26	13802335	3/13/13	9,722,883
0447-US-U27	13802366	3/13/13	9,686,148
0447-US-U27-C1	14580038	12/22/14	10,135,697
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0447-US-U36	14095079	12/3/13	9,749,192
0447-US-U37	14105981	12/13/13	10,142,191
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0447-US-U38	14088358	11/23/13	10,826,793
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0447-US-U5	13714489	12/14/12	9,628,345
0447-US-U6	13714510	12/14/12	9,654,353
0447-US-U7	13714537	12/14/12	9,654,354
0447-US-U8	13714711	12/14/12	9,634,904
0447-US-U9	13714760	12/14/12	9,647,899
0447-US-U9-C1	13837821	3/15/13	9,641,401
0455-US-U1	14137151	12/20/13	10,212,238
0473-US-01	14302215	6/11/14	9667535
0478-US-C1	15682192	8/21/17	10,069,792
0478-US-U1	14687461	4/15/15	9,742,731
0479-US-C1	16160872	10/15/18	10,397,180
0479-US-C2	16548776	8/22/19	10,855,646
0479-US-C3	17104062	11/25/20	11,323,412
0479-US-U1	14749461	6/24/15	10,104,036
0492-US-01	14570512	12/15/14	9,648,127
0492-US-C1	15588935	5/8/17	10,701,173
0492-US-C2	16909245	6/23/20	11,425,223
0492-US-C3	17891675	8/19/22	

0493-US-01	14570743	12/15/14	10,841,400
0493-US-C1	17094854	11/11/20	11,575,773
0493-US-C2	18105822	2/4/23	
0496-US-C1	16659014	10/21/19	11,601,513
0496-US-C2	18117411	3/4/23	
0496-US-U1	14924121	10/27/15	10,455,030
0498-US-U1	14985968	12/31/15	10,057,322
0498-US-U1-C1	16105877	8/20/18	10,348,801
0498-US-U1-C2	16459130	7/1/19	10,764,355
0498-US-U1-C3	17003102	8/26/20	11,451,612
0498-US-U1-C4	17946423	9/16/22	
0498-US-U2	14986015	12/31/15	10,148,728
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0498-US-U3	14986035	12/31/15	10,382,385
0498-US-U3-C1	16538355	8/12/19	10,715,481
0498-US-U3-C2	16923788	7/8/20	11,277,374
0498-US-U3-C3	17687361	3/4/22	11,627,108
0498-US-U3-C4	18132055	4/7/23	
0499-US-C1	16384616	4/15/19	10,938,941
0499-US-D1	17181275	2/22/21	11,165,879
0499-US-U1	14626605	2/19/15	10,264,091
0520-US-C1	17104039	11/25/20	
0520-US-U1	15299224	10/20/16	10,855,591
0524-US-C1	16298741	3/11/19	10,601,770
0524-US-C2	16821053	3/17/20	11,082,394
0524-US-U1	15099101	4/14/16	10,230,686
0525-US-C1	16160878	10/15/18	10,389,599
0525-US-C2	16544034	8/19/19	10,666,522
0525-US-U1	15091454	4/5/16	10,103,945

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0541-US-C2	17367670	7/6/21	11,601,372
0541-US-C3	18117410	3/4/23	
0541-US-U1	15440927	2/23/17	10,484,288
0553-US-01	15158877	5/19/16	10,530,852
0553-US-C1	16734319	1/4/20	10,771,542
0553-US-C2	17010568	9/2/20	11,290,529
0559-US-C1	17075289	10/20/20	11,658,935
0559-US-C2	18199169	5/18/23	
0559-US-U1	15440393	2/23/17	10,819,673
0566-US-C1	17131889	12/23/20	11,252,254
0566-US-C2	17561883	12/24/21	11,665,259
0566-US-C3	18201568	5/24/23	
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0570-US-C2	16793410	2/18/20	10,708,767
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0576-US-01	15364036	11/29/16	11,349,912
0594-US-01	15379222	12/14/16	10,313,223
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0595-US-01	15241044	8/18/16	10,412,186
0595-US-C1	16562426	9/5/19	11,457,089
0595-US-C2	17951646	9/23/22	11,700,318
0595-US-C3	18218730	7/6/23	
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0597-US-C3	17572910	1/11/22	11,595,311
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0615-US-C2	17480196	9/21/21	
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0618-US-C2	17075939	10/21/20	11,463,512
0618-US-C3	17958351	10/1/22	
0619-US-01	15721500	9/29/17	10,673,805
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0619-US-C2	17402678	8/16/21	11,418,482
0619-US-C3	17884612	8/10/22	11,601,394
0619-US-C4	18117191	3/3/23	
0620-US-C1	18117164	3/3/23	
0621-US-01	15727704	10/9/17	10,834,180
0621-US-C1	17087672	11/3/20	
0625-US-C1	17035838	9/29/20	10,949,288
0625-US-C2	17197950	3/10/21	11,334,424
0625-US-C3	17744798	5/16/22	
0625-US-U1	16020681	6/27/18	10,795,757
0639-US-01	15727765	10/9/17	10,749,945
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0645-US-C2	17892198	8/22/22	
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0647-US-C2	17493889	10/5/21	11,463,513
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0655-US-01	15960393	4/23/18	10,645,186
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0657-US-01	16002919	6/7/18	10,594,782
0657-US-C1	16816007	3/11/20	11,637,893
0657-US-C2	18137754	4/21/23	
0662-US-C1	17712657	4/4/22	11,546,447
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0662-US-I1-C1	17589916	2/1/22	11,463,401

0662-US-I1-C2	17958354	10/1/22	11,606,331
0662-US-I1-C3	18119686	3/9/23	
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0677-US-C2	17966857	10/16/22	
0677-US-C3	17966858	10/16/22	
0677-US-C4	17966859	10/16/22	
0677-US-C5	17966861	10/16/22	
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0690-US-U1	17342138	6/8/21	
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1570-US-U1	17362079	6/29/21	11,457,091
1571-US-C1	17738056	5/6/22	11,496,361
1571-US-C2	17976914	10/31/22	
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1592-US-U1	17321106	5/14/21	
1593-US-C1	18213529	6/23/23	
1593-US-U1	17804225	5/26/22	11,689,611
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1647-US-U1	17822525	8/26/22	
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0394-FR-01	12857282.3	2012-12-14	2791819
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