505210948 11/29/2018 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5257716

		NEW ASSIGNMENT						
NATURE OF CONVEYA	NCE:	ASSIGNMENT						
CONVEYING PARTY D	ΑΤΑ							
		Name	Execution Date					
LEVEL 3 COMMUNICA	TIONS, LLC		04/12/2017					
RECEIVING PARTY DA								
Name:	OPTIC153	3 LLC						
Street Address:	717 N. UN	IION STREET						
City:	WILMING	TON						
State/Country:	DELAWA	RE						
Postal Code:	19805							
PROPERTY NUMBERS	S Total: 1							
Property Type		Number						
Patent Number:	66	90884						
CORRESPONDENCE	DATA							
Fax Number: <i>Correspondence will b</i> <i>using a fax number, if</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4:	be sent to th provided; i (30 usp DE 131 SU WI	ne e-mail address first; if that is uns f that is unsuccessful, it will be sent D2) 449-9010 pto@devlinlawfirm.com EVLIN LAW FIRM LLC 06 N. BROOM ST. JITE 1 ILMINGTON, DELAWARE 19806						
Fax Number: Correspondence will b using a fax number, if Phone: Email: Correspondent Name: Address Line 1: Address Line 2:	be sent to the provided; in (30 usp DE 130 SU WI WI	<i>f that is unsuccessful, it will be sent</i> D2) 449-9010 pto@devlinlawfirm.com EVLIN LAW FIRM LLC 06 N. BROOM ST. JITE 1						
Fax Number: Correspondence will b using a fax number, if Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4: ATTORNEY DOCKET NUMARE OF SUBMITTER:	be sent to the provided; in (30 usp DE 130 SU WI WI	f that is unsuccessful, it will be sent 02) 449-9010 pto@devlinlawfirm.com EVLIN LAW FIRM LLC 06 N. BROOM ST. JITE 1 ILMINGTON, DELAWARE 19806						
Fax Number: Correspondence will b using a fax number, if Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4:	be sent to the provided; in (30 usp DE 130 SU WI WI	f that is unsuccessful, it will be sent D2) 449-9010 pto@devlinlawfirm.com EVLIN LAW FIRM LLC 06 N. BROOM ST. JITE 1 LMINGTON, DELAWARE 19806 0215-US-U1 PAT MATHEWS						

EXHIBIT C - U.S. PATENT ASSIGNMENT

WHEREAS, Level 3 Communications, LLC ("Assignor"), is the owner of (i) United States Patent and Patent Applications listed in Schedule A and the following (ii) through (iv) to the extent Assignor owns, controls or has the right to license or enforce them at any time: (ii) any patents or patent applications that claim priority directly or indirectly from any of the foregoing patent(s) in subsection (i), or from which priority is directly or indirectly claimed by any such patent(s) in subsection (i), or that have common priority with any such patent(s) in subsection (i); (iii) any foreign counterparts, foreign related patents, continuations, divisionals, continuations-in-part, extensions, substitutions, reissues, renewals and all results of oppositions, reexaminations, supplemental examinations, requests for continued examination and other review procedures of any of the foregoing in subsections (i) and (ii); and (iv) all patents issuing on patent applications covered by any of the foregoing subsections (i) through (iii) (together the "Assigned Patents").

WHEREAS, OPTIC153 LLC, a Delaware limited liability company ("Assignee") is desirous of acquiring title in and to the Assigned Patents.

WHEREAS, Assignor is the owner of any and all right, title, and interest in and to the Assigned Patents.

WHEREAS, Assignor desires to sell, assign, and transfer all its right, title, and interest in the Assigned Patents to Assignee, and Assignee desires to obtain all such right, title, and interest in the Assigned Patents from Assignor.

NOW, THEREFORE, in consideration of good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, Assignor hereby sells, assigns, transfers and conveys unto Assignee, its permitted successors and assigns, all of Assignor's right, title, and interest in and to the Assigned Patents, together with all claims, demands, or causes of action that Assignor has or might have by reason of any infringement of the Assigned Patents prior to the effective date of this assignment, including the right to suc and collect damages for all past, present and future infringement and all lost profits resulting therefrom.

IN WITNESS WHEREOF, this Agreement has been executed by duly authorized representatives of the Parties on the dates below.

OPTIC	CIS3 LLE
By:	det-
Name:	E-it Stanel
Title:	President
Date:	4-11-17

LEVE	L 3 COMMUNICATIONS, LLC
By:	Jass June

Name: DAVID P. WIM

Title: Vice Prostageor

Date: 4/12/2017

37

HIGHLY CONFIDENTIAL

PATENT REEL: 047623 FRAME: 0323

SCHEDULE A

38

8,115,174 6,118,566 6,236,487 6,282,002 6,292,598 6,317,243 6,344,922 6,344,925 6,356,383 6,369,923 6,377,389 6,426,821 6,449,073 6,456,750 6,459,529 6,493,119 6,515,789 6,522,439 6,529,305 6,534,712 6,538,783 6,556,319 6,563,614 6,563,846 6,563,979 6,567,207 6,577,423 6,587,241 6,587,249 6,587,261 6,614,586 8,618,195 6,633,690 8,661,973 8,871,429 5,675,072 6,682,010 6,687,047 6,687,130 6,690,884 6,701,222 6,704,139 6,707,870 6,708,002 6,714,695 6,714,739 6,768,833 6,771,413 6,771,905 6,775,056

HIGHLY CONFIDENTIAL

PATENT REEL: 047623 FRAME: 0324

A	
6,782,20	8
6,798,80	
6,807,06	£
6,807,06	v
6,809,85	8
6,839,52	2
6,891,98	3
6,894,83	3
& G07 40	£
6,907,19	9
6,922,52	4
6,925,21	2
6,934.07	7
6,834,46	\$
6,934,47	3
	TT
6,937,38	Q
6,937,79	6
* * * * * * * *	
6,941,03	f
6,944,39	್
6,967,76	
a'na.'.a	v
6,973,10	6
6,980,71	1
6,980,74	;
6,980,74	Υ
6,987,90	Q.
5,051,05	<u> </u>
6,992,81	5
*****	<u>.</u>
7,002,90	9
7,010,22	9
W	
5 15 663 1556	7
7,039,06	7
7,048,43	0
7,048,43	0
7,048,43	0 9
7,048,43	0 9
7,048,43 7,062,16 7,065,30	0 9 3
7,048,43 7,062,16 7,065,30 7,085,04	0 9 3 2
7,048,43 7,062,16 7,065,30 7,085,04	0 9 3 2
7,048,43 7,062,16 7,065,30 7,085,04 7,088,50	0 9 3 2
7,048,43 7,062,16 7,065,30 7,085,04 7,088,50	0 9 3 2 0
7,048,43 7,062,16 7,065,30 7,085,04 7,088,50 7,113,70	0 9 3 2 0 6
7,048,43 7,062,16 7,065,30 7,085,04 7,088,50 7,113,70	0 9 3 2 0 6
7,048,43 7,062,16 7,065,30 7,085,04 7,088,50 7,113,70 7,120,38	0 9 3 2 0 6 2
7,048,43 7,062,16 7,065,30 7,085,04 7,088,50 7,113,70 7,120,38	0 9 3 2 0 6 2
7,048,43 7,062,16 7,065,30 7,085,04 7,088,50 7,113,70 7,120,38 7,127,17	0 9 3 2 0 6 2 3
7,048,43 7,062,16 7,065,30 7,085,04 7,088,50 7,113,70 7,120,38 7,127,17 7,130,54	0 9 3 2 0 6 2 3
7,048,43 7,062,16 7,065,30 7,085,04 7,088,50 7,113,70 7,120,38 7,127,17 7,130,54	0 9 3 2 0 6 2 3 0
7,048,43 7,062,16 7,065,30 7,085,04 7,088,50 7,113,70 7,120,38 7,127,17 7,130,54 7,130,54	093206230623022
7,048,43 7,062,16 7,065,30 7,085,04 7,088,50 7,113,70 7,120,38 7,127,17 7,130,544 7,130,544	0 9 3 2 0 6 2 3 0
7,048,43 7,062,16 7,065,30 7,085,04 7,088,50 7,113,70 7,120,38 7,127,17 7,130,54 7,130,54 7,130,54 7,130,54	0 9 3 2 0 6 2 3 3 2 3
7,048,43 7,062,16 7,065,30 7,085,04 7,088,50 7,113,70 7,120,38 7,127,17 7,130,54 7,130,54 7,130,54 7,130,54	0 9 3 2 0 6 2 3 3 2 3
7,048,43 7,062,16 7,065,30 7,085,04 7,088,500 7,113,700 7,120,38 7,127,17 7,130,54 7,130,54 7,130,54 7,133,19	0 9 3 2 0 6 2 3 3 3 3 3
7,048,43 7,062,16 7,065,30 7,085,04 7,088,50 7,120,38 7,120,38 7,120,38 7,120,38 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54	0 9 3 2 5 6 2 3 3 8 3 3 8 8
7,048,43 7,062,16 7,065,30 7,085,04 7,088,50 7,120,38 7,120,38 7,120,38 7,120,38 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54	0 9 3 2 5 6 2 3 3 8 3 3 8 8
7,048,43 7,062,16 7,065,30 7,085,04 7,088,50 7,120,36 7,120,36 7,120,36 7,120,36 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,196,83 7,196,83	09320623023881
7,048,43 7,062,16 7,065,30 7,085,04 7,088,50 7,120,36 7,120,36 7,120,36 7,120,36 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,196,83 7,196,83	09320623023881
7,048,43 7,062,16 7,065,30 7,085,04 7,088,50 7,120,36 7,120,36 7,120,36 7,120,36 7,130,54 7,130,54 7,130,54 7,196,83 7,197,24 7,215,46	0 9 3 2 0 6 2 3 0 2 3 9 5 1 3 8 5 1 3
7,048,43 7,062,16 7,065,30 7,085,04 7,088,50 7,120,36 7,120,36 7,120,36 7,120,36 7,130,54 7,130,54 7,130,54 7,196,83 7,197,24 7,215,46	0 9 3 2 0 6 2 3 0 2 3 9 5 1 3 8 5 1 3
7,048,43 7,062,16 7,065,30 7,085,04 7,088,50 7,113,70 7,120,36 7,120,36 7,120,36 7,120,36 7,130,54 7,130,54 7,130,54 7,130,54 7,196,83 7,196,83 7,196,83 7,196,83 7,196,83 7,196,83	0 9 3 2 0 6 2 3 0 2 3 8 3 1 3 2
7,048,43 7,062,16 7,065,30 7,085,04 7,088,50 7,113,70 7,120,36 7,120,36 7,120,36 7,120,36 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,197,24 7,197,24 7,215,46 7,260,33 7,274,87	093206230238813223
7,048,43 7,062,16 7,065,30 7,085,04 7,088,50 7,113,70 7,120,36 7,120,36 7,120,36 7,120,36 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,197,24 7,197,24 7,215,46 7,260,33 7,274,87	093206230238813223
7,048,43 7,062,16 7,065,30 7,085,04 7,085,04 7,113,70 7,120,36 7,120,36 7,120,36 7,120,36 7,130,544 7,130,544 7,130,544 7,196,83 7,196,83 7,196,83 7,196,83 7,196,83 7,196,83 7,196,83 7,196,83 7,196,83 7,196,83 7,274,87 7,296,21	093206230238813223
7,048,43 7,062,16 7,065,30 7,085,04 7,085,04 7,113,70 7,120,36 7,120,36 7,120,36 7,120,36 7,130,544 7,130,544 7,130,544 7,196,83 7,196,83 7,196,83 7,196,83 7,196,83 7,196,83 7,196,83 7,196,83 7,196,83 7,196,83 7,274,87 7,296,21	093206230238813223
7,048,43 7,062,16 7,065,30 7,085,04 7,088,50 7,113,70 7,120,36 7,127,17 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,196,83 7,197,24 7,215,46 7,260,33 7,274,87 7,296,21 7,317,87	0 932 0 932 0 932 0 932 938 91 32 32 7
7,048,43 7,062,16 7,065,30 7,085,04 7,088,50 7,113,70 7,120,36 7,127,17 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,196,83 7,197,24 7,215,46 7,260,33 7,274,87 7,296,21 7,317,87	0 932 0 932 0 932 0 932 932 932 932 932 932 932 932 932 932
7,048,43 7,062,16 7,065,30 7,085,04 7,088,50 7,113,70 7,120,36 7,127,17 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,196,83 7,197,24 7,215,46 7,260,33 7,274,87 7,296,21 7,317,87	0 932 0 932 0 932 0 932 932 932 932 932 932 932 932 932 932
7,048,43 7,062,16 7,085,04 7,085,04 7,088,500 7,120,38 7,127,17 7,130,54 7,130,54 7,130,54 7,130,54 7,196,83 7,197,24 7,215,46 7,260,33 7,274,87 7,296,21 7,296,21 7,317,87 7,339,72 7,340,16	093206230238813232753
7,048,43 7,062,16 7,085,04 7,085,04 7,088,500 7,120,38 7,127,17 7,130,54 7,130,54 7,130,54 7,130,54 7,196,83 7,197,24 7,215,46 7,260,33 7,274,87 7,296,21 7,296,21 7,317,87 7,339,72 7,340,16	093206230238813232753
7,048,43 7,062,16 7,065,30 7,085,04 7,085,04 7,120,38 7,127,17 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,196,83 7,197,24 7,196,83 7,197,24 7,260,33 7,274,87 7,296,21 7,396,21 7,399,72 7,343,09	0932062302388132327537
7,048,43 7,062,16 7,065,30 7,085,04 7,085,04 7,120,38 7,127,17 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,196,83 7,197,24 7,196,83 7,197,24 7,260,33 7,274,87 7,296,21 7,396,21 7,399,72 7,343,09	0932062302388132327537
7,048,43 7,062,16 7,065,30 7,085,04 7,088,50 7,120,38 7,120,38 7,120,38 7,120,38 7,120,38 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,25,62 7,260,33 7,274,87 7,296,21 7,317,87 7,339,72 7,340,18 7,343,09 7,343,09 7,406,26	09320623023881323275371
7,048,43 7,062,16 7,065,30 7,085,04 7,088,50 7,120,38 7,120,38 7,120,38 7,120,38 7,120,38 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,25,62 7,260,33 7,274,87 7,296,21 7,317,87 7,339,72 7,340,18 7,343,09 7,343,09 7,406,26	09320623023881323275371
7,048,43 7,062,16 7,085,04 7,085,04 7,085,04 7,120,38 7,127,17 7,120,38 7,127,17 7,130,54 7,25,46 7,25,46 7,30,72 7,300,72 7,300,72 7,300,72 7,300,72 7,300,72 7,300,72 7,300,72 7,300,72 7,300,72 7,40,16 7,340,16 7,405,267,405,26 7,405,20 7,405,40 7,405,40 7,405,40 7,405,40 7,405,40 7,405,40 7,405,40 7,405,40 7,405,40 7,405,40 7,405,40 7,405,40 7,405,40 7,405,40 7,405,40 7,405,40 7,405,40 7,405,40 7,405,4	083206230238813232753741
7,048,43 7,062,16 7,065,30 7,085,04 7,085,04 7,085,04 7,120,36 7,120,36 7,120,36 7,120,36 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,25 7,26,21 7,317,67 7,339,72 7,340,16 7,343,09 7,406,26 7,415,21 7,424,22	0832082302388132327337414
7,048,43 7,062,16 7,065,30 7,085,04 7,085,04 7,085,04 7,120,36 7,120,36 7,120,36 7,120,36 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,25 7,26,21 7,317,67 7,339,72 7,340,16 7,343,09 7,406,26 7,415,21 7,424,22	0832082302388132327337414
7,048,43 7,062,16 7,085,04 7,085,04 7,085,04 7,120,38 7,127,17 7,120,38 7,127,17 7,130,54 7,25,46 7,25,46 7,30,72 7,300,72 7,300,72 7,300,72 7,300,72 7,300,72 7,300,72 7,300,72 7,300,72 7,300,72 7,40,16 7,340,16 7,405,267,405,26 7,405,20 7,405,40 7,405,40 7,405,40 7,405,40 7,405,40 7,405,40 7,405,40 7,405,40 7,405,40 7,405,40 7,405,40 7,405,40 7,405,40 7,405,40 7,405,40 7,405,40 7,405,40 7,405,40 7,405,4	0832082302388132327337414
7,048,43 7,062,16 7,085,04 7,085,04 7,085,04 7,120,38 7,127,17 7,120,38 7,127,17 7,130,54 7,25,65 7,260,33 7,274,67 7,330,72 7,340,16 7,340,16 7,440,26 7,440,460,460,460,460,460,460,460,460,460	09320623023881323273374142
7,048,43 7,062,16 7,065,30 7,085,04 7,085,04 7,085,04 7,120,36 7,120,36 7,120,36 7,120,36 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,130,54 7,25 7,26,21 7,317,67 7,339,72 7,340,16 7,343,09 7,406,26 7,415,21 7,424,22	09320623023881323273374142

HIGHLY CONFIDENTIAL

39

						١,				
						ļ				
						l				
						ļ				
						,				
						l				

HIGHLY CONFIDENTIAL

40

PATENT REEL: 047623 FRAME: 0326

RECORDED: 11/29/2018