

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5213880

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	OFINNO TECHNOLOGIES, LLC	05/01/2015
RECEIVING PARTY DATA		
Name:	COMCAST CABLE COMMUNICATIONS, LLC	
Street Address:	1701 JFK BOULEVARD	
City:	PHILADELPHIA	
State/Country:	PENNSYLVANIA	
Postal Code:	19103	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	15864759
CORRESPONDENCE DATA		
Fax Number:	(202)824-3001	
<i>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.</i>		
Phone:	(202) 824-3000	
Email:	bwptopat@bannerwitcoff.com , eanthony@bannerwitcoff.com	
Correspondent Name:	BANNER & WITCOFF, LTD.	
Address Line 1:	1100 13TH ST. NW	
Address Line 2:	STE 1200	
Address Line 4:	WASHINGTON, D.C. 20005	
ATTORNEY DOCKET NUMBER:	007412.03863	
NAME OF SUBMITTER:	STEVE S. CHANG	
SIGNATURE:	/Steve Chang/	
DATE SIGNED:	10/30/2018	
Total Attachments: 4		
source=Assignment Ofinno to Comcast - from parent#page1.tif		
source=Assignment Ofinno to Comcast - from parent#page2.tif		
source=Assignment Ofinno to Comcast - from parent#page3.tif		
source=Assignment Ofinno to Comcast - from parent#page4.tif		

EXECUTION COPY

Assignment of Patent Rights

This patent assignment (this "Assignment") is entered into as of the Effective Date set forth below by and between Ofinno Technologies, LLC ("Assignor") and Comcast Cable Communications, LLC ("Assignee").

WHEREAS, Assignor holds the entire right, title and interest in the patents and patent applications identified and set forth on Appendix A attached hereto (the "Patents");

WHEREAS, Assignee is desirous of securing the entire right, title and interest in and to the Patents in all countries throughout the world; and

WHEREAS, Assignor and Assignee entered into a Patent Purchase Agreement, dated May 1, 2015 pursuant to which Assignor agreed to sell to Assignee certain patents and patent applications including the Patents (the "Patent Purchase Agreement").

For good and valuable consideration, the receipt of which is hereby acknowledged, Assignor does hereby irrevocably as of the Effective Date sell, assign, transfer and convey unto Assignee, or Assignee's designee(s), all of Assignor's right, title and interest throughout the world in and to all of the following:

- (a) the Patents;
- (b) all patent applications patents and/or other similar governmental grants or issuances worldwide (i) from which any of the Patents directly or indirectly claims priority and/or (ii) for which any of the Patents directly or indirectly forms a basis for priority;
- (c) any reissues, reexaminations, extensions, continuations, continuations in part, continuing prosecution applications, requests for continuing examinations, divisions and registrations of and rights to claim priority to any item in any of the foregoing categories (a) and (b);
- (d) foreign patents, patent applications and counterparts relating to any item in any of the foregoing categories (a) through (c), including, without limitation, certificates of invention, utility models, industrial design protection, design patent protection and/or other governmental grants or issuances;
- (e) any items in any of the foregoing categories (a) through (d) whether or not expressly listed as Patents and whether or not claims in any of the foregoing have been rejected, withdrawn or cancelled; and
- (f) all rights to sue and recover damages for past and future infringement of any items in any of the foregoing categories (a) through (e) and all rights to collect royalties or other payments under or on account of any item in any of the foregoing categories (a) through (e) (excluding royalties or payments that have been already collected by Assignor and royalties or payments owed to Assignor under an existing agreement even if not already paid to Assignor, its affiliates or any predecessor of Assignor or Assignor's affiliates, either now or in the future).

Assignor hereby authorizes the Commissioner of Patents and Trademarks in the United States Patent and Trademark Office, and the corresponding entities or agencies in any applicable foreign countries or multinational authorities, to record Assignee as the assignee and owner of the Patents owned by such Assignor and to deliver to Assignee, and to Assignee's attorneys, agents, successors or assigns, all official documents and communications as may be warranted by this Assignment.

The above-granted rights, titles and interests are to be held and enjoyed by Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives and assigns, as fully and entirely as the same would have been held and enjoyed by Assignor had this sale and assignment not been made.

This Assignment shall be interpreted, construed and enforced in all respects in accordance with the laws of the State of Delaware, without reference to its choice of law principles to the contrary. This Assignment may

be executed in any number of counterparts, each of which shall be deemed to be an original, and all of which together shall constitute one and the same instrument. Delivery of an executed counterpart of a signature page to this Assignment by facsimile or electronic mail shall be as effective as delivery of a manually executed counterpart of this Assignment. This Assignment may not be supplemented, altered or modified in any manner except by a writing signed by all parties hereto. The failure of any party to enforce any terms or provisions of this Assignment shall not waive any of its rights under such terms or provisions. The terms and conditions of this Assignment will inure to the benefit of Assignee, its successors, assigns and other legal representatives and will be binding upon Assignor, its successors, assigns and other legal representatives.

IN WITNESS WHEREOF, intending to be legally bound, the below identified parties have executed this Assignment as of the 1st day of May, 2015 (the "Effective Date").

ASSIGNOR

ASSIGNEE

By: Esmail Dinan

By: AW

Name: Esmail H. Dinan

Name: Arthur R. Block

Title: CEO

Title: Executive Vice President

Date: May 1, 2015

Date: May 1, 2015

Appendix A to Assignment of Patent Rights

Application No.	Country	Filing Date	Status	Patent No.	Issue Date
61/503,625	US	01-Jul-11	Expired		
61/504,257	US	04-Jul-11	Expired		
61/523,124	US	12-Aug-11	Expired		
61/523,132	US	12-Aug-11	Expired		
61/523,135	US	12-Aug-11	Expired		
13/537,415	US	29-Jun-12	Granted	8,582,527	12-Nov-13
13/947,147	US	22-Jul-13	Granted	8,576,794	05-Nov-13
14/070,623	US	04-Nov-13	Granted	8,989,130	24-Mar-15
14/194,708	US	01-Mar-14	Granted	8,953,550	10-Feb-15
14/016,921	US	03-Sep-13	Granted	8,804,772	12-Aug-14
13/539,586	US	02-Jul-12	Granted	8,437,303	07-May-13
13/857,637	US	05-Apr-13	Pending		
14/139,287	US	23-Dec-13	Pending		
13/535,530	US	28-Jun-12	Granted	8,369,280	05-Feb-13
13/727,190	US	26-Dec-12	Granted	8,422,455	16-Apr-13
13/784,862	US	05-Mar-13	Granted	8,483,172	09-Jul-13
13/899,602	US	22-May-13	Granted	8,526,393	03-Sep-13
13/960,716	US	06-Aug-13	Granted	8,699,449	15-Apr-14
14/194,704	US	01-Mar-14	Granted	8,811,333	19-Aug-14
14/337,273	US	22-Jul-14	Granted	8,908,633	09-Dec-14
14/558,095	US	02-Dec-14	Pending		
61/566,670	US	04-Dec-11	Expired		
61/566,671	US	04-Dec-11	Expired		
PCT/US12/67499	US PCT	01-Dec-12	Expired		
13/691,720	US	30-Nov-12	Granted	8,427,976	23-Apr-13
13/791,535	US	08-Mar-13	Granted	8,526,459	03-Sep-13

13/938,306	US	10-Jul-13	Granted	8,571,056	29-Oct-13
14/042,840	US	01-Oct-13	Pending		
13/691,714	US	30-Nov-12	Granted	8,842,637	23-Sep-14
14/485,753	US	14-Sep-14	Pending		
13/691,722	US	30-Nov-12	Granted	8,446,844	21-May-13
13/852,634	US	28-Mar-13	Granted	8,531,990	10-Sep-13
13/956,640	US	01-Aug-13	Granted	8,711,731	29-Apr-14
			Pending, Notice of Allowance		
14/194,754	US	02-Mar-14			
61/615,347	US	25-Mar-12	Expired		
61/642,472	US	04-May-12	Expired		
13/850,228	US	25-Mar-13	Pending		
13/887,408	US	06-May-13	Pending		
14/659,665	US	17-Mar-15	Pending		
12741415.9	EP	03-Jul-12	Grant Intended	2564612	
12738291.9	EP	28-Jun-12	Granted	2564611	18-Feb-15
14200113	EP	03-Jul-12	Pending	2858396	
12805848.4	EP	01-Dec-12	Pending	2786615	
PCT/US2012/045342	WO	03-Jul-12	Expired	WO2013006593	
PCT/US2012/044665	WO	28-Jun-12	Expired	WO2013006379	

COM 262206_1