

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT8270251

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	OFINNO TECHNOLOGIES, LLC	05/30/2018
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:	18172791
CORRESPONDENCE DATA		
Fax Number:		
<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>		
Email:	dbelson@bannerwitcoff.com, bwptopat@bannerwitcoff.com	
Correspondent Name:	BANNER WITCOFF	
Address Line 1:	1100 13TH ST NW	
Address Line 2:	#1200	
Address Line 4:	WASHINGTON, D.C. 20005	
ATTORNEY DOCKET NUMBER:	007412.06243	
NAME OF SUBMITTER:	BRIAN EMFINGER	
SIGNATURE:	/Brian Emfinger/	
DATE SIGNED:	11/10/2023	
Total Attachments: 5		
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Patent Assignment

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"); and

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

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 30th day of May 2018 (the "Effective Date").

ASSIGNOR

ASSIGNEE

By: Esmail Dinar
Name: ESMAEL DINAN
Title: CEO
Date: May 30, 2018

By: James J. P. Morgan
Name: James J. P. Morgan
Title: VP, Strategic Intellectual Property
Date: May 30, 2018

Appendix A to Assignment of Patent Rights

Application No.	Country	Status	Filing Date	Patent No.	Issue Date
15/054,420	US	Granted	2/26/2016	9,872,336	1/16/2018
15/055,541	US	Granted	2/27/2016	9,820,264	11/14/2017
15/055,612	US	Granted	2/28/2016	9,929,848	3/27/2018
15/058,759	US	Pending	3/2/2016		
15/058,931	US	Granted	3/2/2016	9,820,298	11/14/2017
15/059,910	US	Pending	3/3/2016		
15/059,991	US	Pending	3/3/2016		
15/090,640	US	Granted	4/5/2016	9,877,334	1/23/2018
15/091,289	US	Pending	4/5/2016		
15/159,629	US	Allowed	5/19/2016		
15/159,920	US	Granted	5/20/2016	9,894,681	2/13/2018
15/162,779	US	Granted	5/24/2016	9,948,487	4/17/2018
15/273,307	US	Pending	9/22/2016		
15/273,341	US	Pending	9/22/2016		
15/295,977	US	Pending	10/17/2016		
15/419,445	US	Pending	1/30/2017		
15/425,990	US	Pending	2/6/2017		
15/425,992	US	Pending	2/6/2017		
15/469,023	US	Pending	3/24/2017		
15/470,165	US	Pending	3/27/2017		
15/472,801	US	Pending	3/29/2017		
15/589,411	US	Pending	5/8/2017		
15/670,788	US	Pending	8/7/2017		
15/670,857	US	Pending	8/7/2017		
15/671,801	US	Pending	8/8/2017		
15/784,716	US	Pending	10/16/2017		
15/801,686	US	Pending	11/2/2017		
15/809,521	US	Pending	11/10/2017		
15/809,619	US	Pending	11/10/2017		
15/812,246	US	Pending	11/14/2017		
15/816,190	US	Pending	11/17/2017		
15/863,263	US	Pending	1/5/2018		
15/867,610	US	Pending	1/10/2018		
15/889,650	US	Pending	2/6/2018		
15/927,283	US	Pending	3/21/2018		
15/951,499	US	Pending	4/12/2018		
62/130,504	US	Expired	3/9/2015		
62/130,517	US	Expired	3/9/2015		
62/130,522	US	Expired	3/9/2015		

62/130,531	US	Expired	3/9/2015		
62/130,552	US	Expired	3/9/2015		
62/130,554	US	Expired	3/9/2015		
62/130,563	US	Expired	3/9/2015		
62/143,177	US	Expired	4/5/2015		
62/147,243	US	Expired	4/14/2015		
62/174,595	US	Expired	6/12/2015		
62/174,606	US	Expired	6/12/2015		
62/175,867	US	Expired	6/15/2015		
62/221,692	US	Expired	9/22/2015		
62/221,701	US	Expired	9/22/2015		
62/243,028	US	Expired	10/17/2015		
62/290,691	US	Expired	2/3/2016		
62/291,387	US	Expired	2/4/2016		
62/291,399	US	Expired	2/4/2016		
62/313,171	US	Expired	3/25/2016		
62/313,174	US	Expired	3/25/2016		
62/317,520	US	Expired	4/2/2016		
62/332,510	US	Expired	5/6/2016		
62/339,845	US	Expired	5/21/2016		
62/371,792	US	Expired	8/7/2016		
62/372,120	US	Expired	8/8/2016		
62/372,643	US	Expired	8/9/2016		
62/408,338	US	Expired	10/14/2016		
62/408,373	US	Expired	10/14/2016		
62/416,564	US	Expired	11/2/2016		
62/421,821	US	Expired	11/14/2016		
62/422,284	US	Expired	11/15/2016		
62/423,644	US	Expired	11/17/2016		
3,000,508	CA	Pending	3/28/2018		
2016-80014414.7	CN	Pending	9/6/2017		
2016-80014760.5	CN	Pending	9/8/2017		
2016-800596036	CN	Pending	4/11/2018		
16715377.4	EP	Granted	11/11/2016	3130181	9/13/2017
16716078.7	EP	Granted	8/25/2016	3105879	3/7/2018
16788889	EP	Allowed	8/8/2017		
201817018193	IN	Pending	5/15/2018		
2017-546998	JP	Pending	9/1/2017		
2017-546843	JP	Pending	9/12/2017		
2018-512586	JP	Pending	3/8/2018		
2017-7025339	KR	Pending	9/8/2017		
2017-7025348	KR	Granted	9/8/2017	10-1833189-0000	11/21/2017

2018-7010708	KR	Pending	4/16/2018		
PCT/US16/21201	WO	Expired	3/7/2016		
PCT/US16/21227	WO	Expired	3/7/2016		
PCT/US16/57420	WO	Pending	10/17/2016		
PCT/US17/45754	WO	Pending	8/7/2017		